

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 SOUTHEAST REGION
 DESIGN AND CONSTRUCTION DIVISION
 KETCHIKAN, ALASKA
 SOUTH TONGASS HIGHWAY

**COAST GUARD ENTRANCE TO
 SAXMAN RECREATION PATH
 (REBID)**

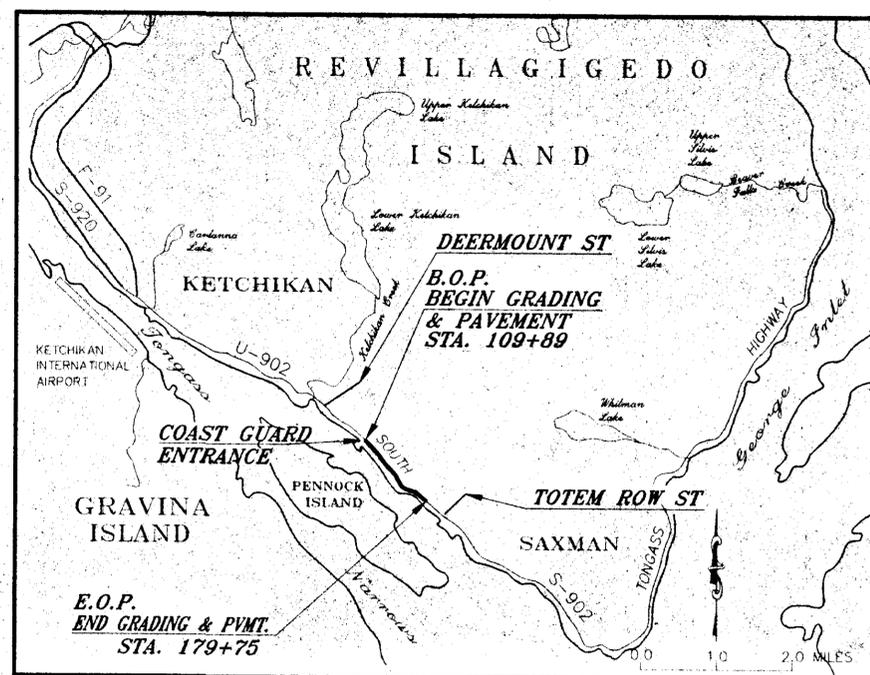
**GRADING, PAVING, RETAINING
 WALL, STRUCTURES & DRAINAGE**

**PROJECT NO. TE-0902(18)
 (71372)**

SHEET NO	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	TYPICAL SECTIONS SUMMARY
4	ESTIMATE OF QUANTITIES
5	HORIZONTAL CONTROL SUMMARY
6-19	PLAN & PROFILE SHEETS
20	GEOWALL & ROCKERY WALL DETAILS
21	GLULAM PANEL STRUCTURE DETAILS (ALTERNATE NO. 1)
22	SOLDIER POST WALL DETAILS
23	CHAINLINK FENCE DETAILS
24-25	ECCENTRIC LOADER END ANCHORAGE DETAILS
26	DRIVEWAY DETAILS AT STATION 132+25
27	RAMP DETAILS AT STATION 133+00
28	PLAN & PROFILES @ STATIONS 158+50 & 164+50
29-30	MISCELLANEOUS DETAILS
31	SIGNING SUMMARY AND MARKING DETAILS
32-33	EROSION AND SEDIMENT CONTROL PLAN
34	EROSION AND SEDIMENT CONTROL PLAN DETAILS
35	TRAFFIC CONTROL PLAN
36	CONCRETE PANEL STRUCTURE DETAILS (ALTERNATE NO. 2)
37	SAWN TIMBER STRUCTURE DETAILS (ALTERNATE NO. 3)

DESIGN DATA

- WIDTH OF PAVEMENT - - - - - 8.0'
- LENGTH OF PAVEMENT - - - - - 6,986'(1.32 Mi)
- LENGTH OF GRADING - - - - - 6,986'(1.32 Mi)
- LENGTH OF PROJECT - - - - - 6,986'(1.32 Mi)



VICINITY MAP

The following Standard Drawings apply to this project:
 A-1, C-01.03, C-02.01, C-03.01, D-01.02, D-04.10,
 D-05.10, D-07.00, F-01.01, F-03.01, G-04.04S, G-04.05W,
 G-14.04W, G-18.00W, G-18.00S, I-20.11, M-05.00,
 S-00.00, S-05.00, S-20.00, & S-30.01

As Built Plans 1996

Contractor: Rock n Road
 Proj. Eng: Allen Shepard

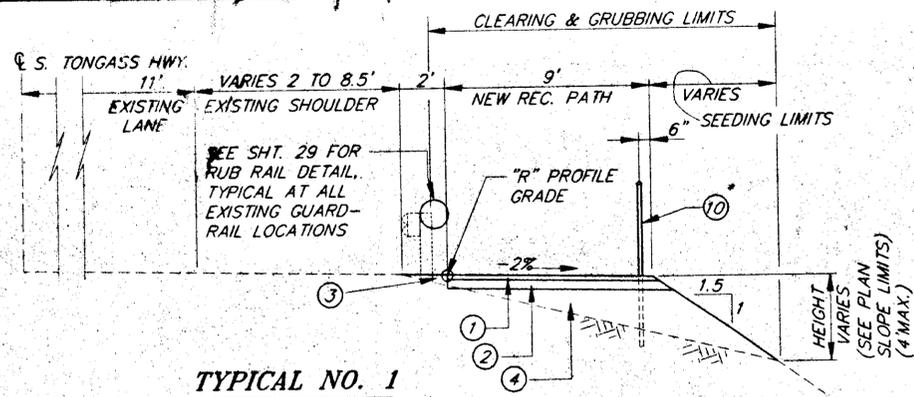
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN SECTION

APPROVED *[Signature]* Date 2/17/95
 Regional Reconstruction Engineer

APPROVED *[Signature]* Date 7/26/95
 Director, S.E. Region Design & Construction

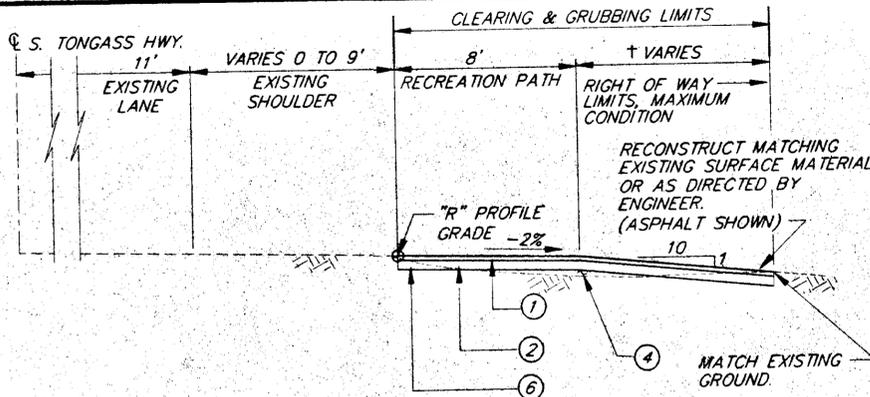
PROJECT NUMBER: 71372	ENGINEER'S SEAL
DATE: AUGUST 1995	
SHEET 1 OF 37	

P: \KTN\71372\DR1-TSHT PLOT-PCP(1) OR PLOT-PCP(2)



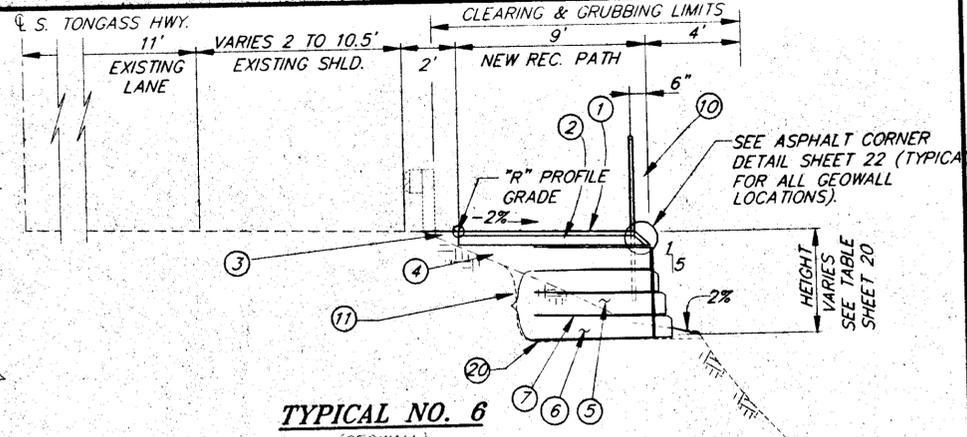
TYPICAL NO. 1
(ROCK FILL)

* NOTE:
SEE FENCE SUMMARY TABLE SHEET 23
FOR AREAS OF APPLICATION.



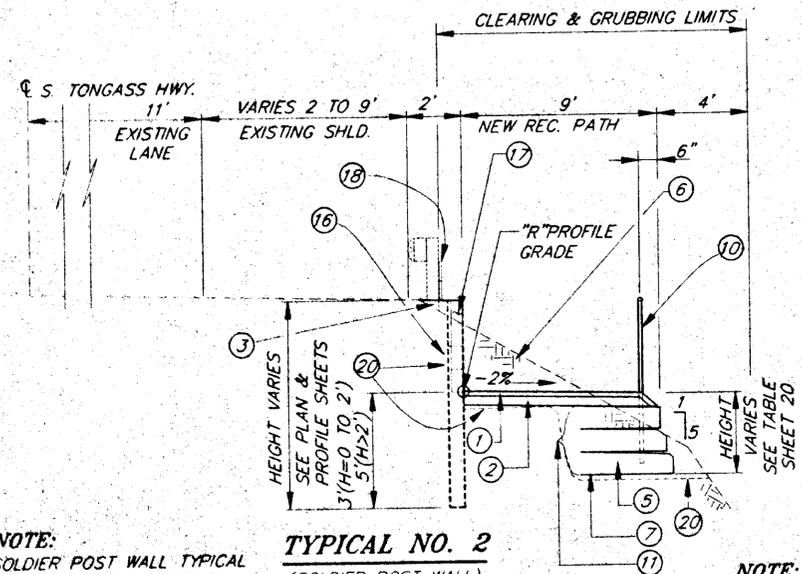
TYPICAL NO. 4
(SOIL FILL)

† SEED IF EXISTING SURFACE
IS VEGETATED. USE NO
BASE IF SEEDED.



TYPICAL NO. 6
(GEOWALL)

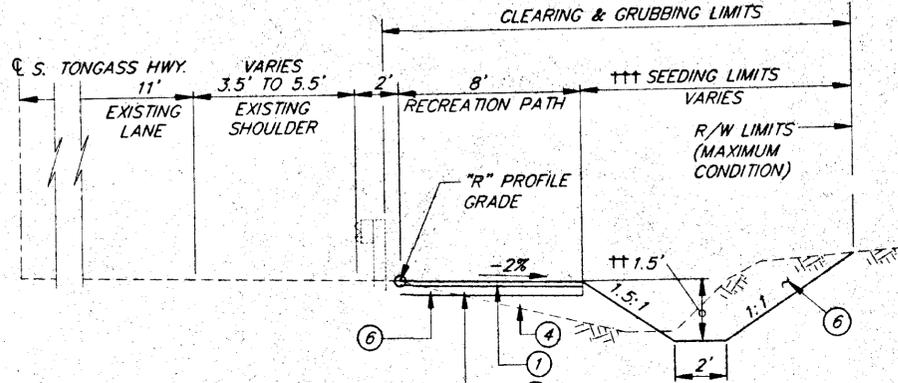
SEE ASPHALT CORNER
DETAIL SHEET 22 (TYPICAL
FOR ALL GEOWALL
LOCATIONS).



TYPICAL NO. 2
(SOLDIER POST WALL)

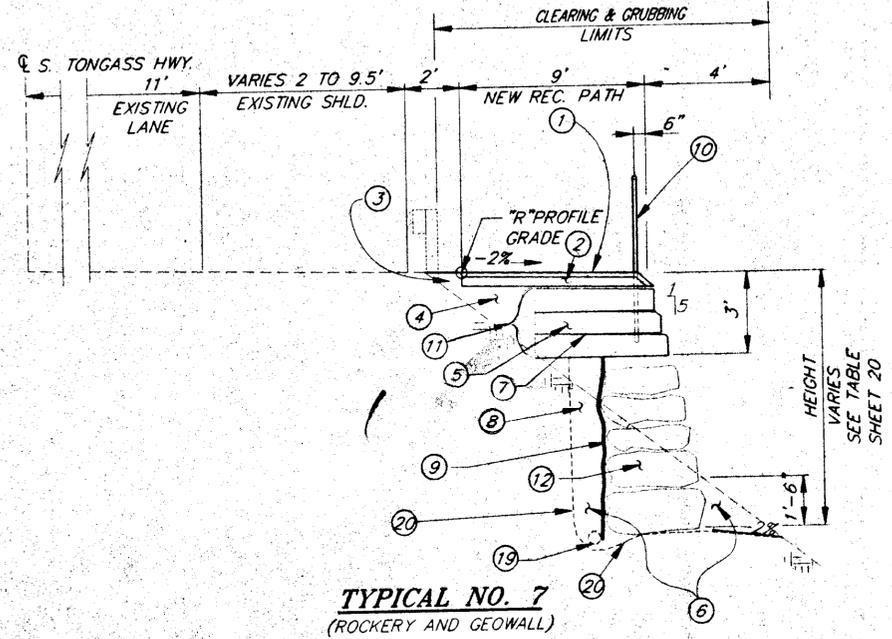
NOTE:
SOLDIER POST WALL TYPICAL
IS SHOWN IN COMBINATION
WITH A GEOWALL (TYP. NO. 6).
SEE TYPICAL SECTION SUMMARY,
SHEET 3 FOR OTHER TYPICALS
AND THEIR APPLICATION
WITH SOLDIER POST WALLS.

NOTE:
SHOT ROCK EMBANKMENT
WILL BE ENCOUNTERED
DURING POST INSTALLATION
OPERATIONS FOR BOTH
TYPICALS NO. 2 AND 3.

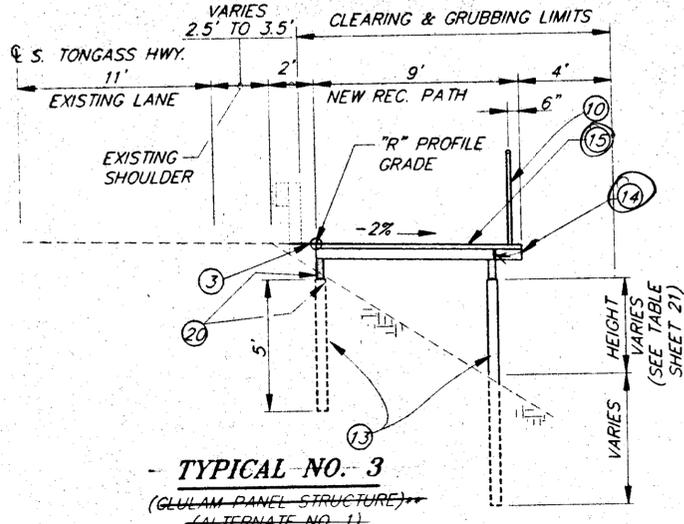


TYPICAL NO. 5
(ROCK CUT)

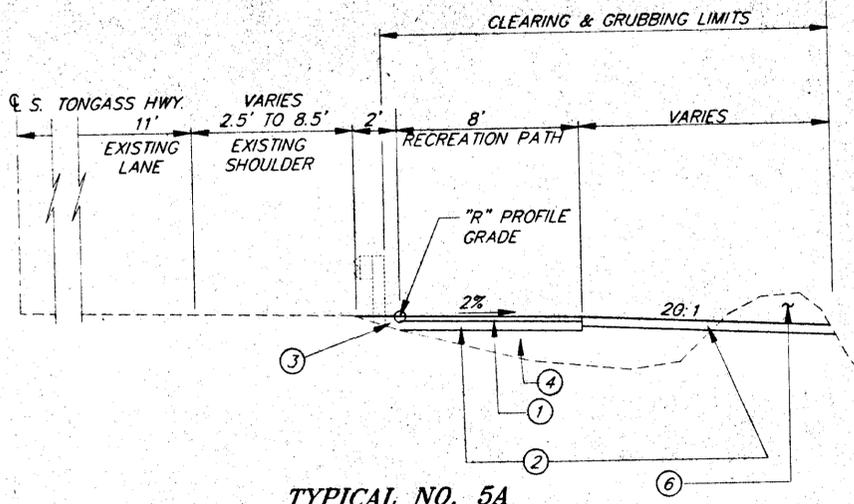
†† SEE PLAN & PROFILE
SHEETS FOR SPECIAL
DITCH LOCATIONS
WHERE HEIGHT VARIES.
††† SEEDING NOT REQUIRED
AT ROCK BACKSLOPES



TYPICAL NO. 7
(ROCKERY AND GEOWALL)



TYPICAL NO. 3
(GLULAM PANEL STRUCTURE)
(ALTERNATE NO. 1)



TYPICAL NO. 5A
(DAYLIGHT ROCK CUT)

LABELING SUMMARY	
1	1 1/2" ASPHALT CONCRETE, TYPE II, CLASS "B"
2	4" CRUSHED AGGREGATE BASE COURSE
3	CRUSHED AGGREGATE BASE COURSE
4	BORROW, TYPE "D" OR USEABLE EXCAVATION (SEE SECT. 203)
5	BORROW, TYPE "E"
6	UNCLASSIFIED EXCAVATION
7	GEOWALL W/ REINFORCED WALL (Change Order #1)
8	2" TO 4" QUARRY SPALLS
9	RIPRAP FABRIC
10	CHAINLINK FENCE & POSTS. SEE DETAILS SHEET 23
11	GEOWALL. SEE DETAILS SHEET 20
12	ROCKERY. SEE DETAILS SHEET 20
13	W 6 X 15 GALVANIZED STEEL POSTS. SEE DETAILS SHEET 21
14	GLULAM PANEL. SEE DETAILS SHEET 2136/Concrete Panel Structure
15	2" X 12" TREATED TIMBER WEARING SURFACE. SEE DETAILS SHEET 2136
16	W 6 X 15 GALV. STEEL SOLDIER POSTS. SEE DETAILS SHEET 22
17	3" X 12" TREATED TIMBER GLULAM LAGGING. SEE SHEET 22
18	2" X 8" TREATED TIMBER GRAVEL SHIELD. SEE DETAILS SHEET 22
19	6" PERFORATED PIPE
20	LIMITS OF EXCAVATION

Alt. No. 2, Conc. Panels Pg 36

** NOTE SEE ALTERNATES 2 AND 3 SHEET NO'S. 36 AND 37

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P-1411, P-1412, P-1413, P-1414, P-1415, P-1416, P-1417, P-1418, P-1419, P-1420, P-1421, P-1422, P-1423, P-1424, P-1425, P-1426, P-1427, P-1428, P-1429, P-1430, P-1431, P-1432, P-1433, P-1434, P-1435, P-1436, P-1437, P-1438, P-1439, P-1440, P-1441, P-1442, P-1443, P-1444, P-1445, P-1446, P-1447, P-1448, P-1449, P-1450, P-1451, P-1452, P-1453, P-1454, P-1455, P-1456, P-1457, P-1458, P-1459, P-1460, P-1461, P-1462, P-1463, P-1464, P-1465, P-1466, P-1467, P-1468, P-1469, P-1470, P-1471, P-1472, P-1473, P-1474, P-1475, P-1476, P-1477, P-1478, P-1479, P-1480, P-1481, P-1482, P-1483, P-1484, P-1485, P-1486, P-1487, P-1488, P-1489, P-1490, P-1491, P-1492, P-1493, P-1494, P-1495, P-1496, P-1497, P-1498, P-1499, P-1500

BY: DATE: DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902(18) (71372)

ALASKA
DESIGNED BY: W. HOLBROOK
DRAWN BY: K. KLEMMETSON

PROJECT NO.
71372
DATE:
AUGUST 1995



TYPICAL SECTION SUMMARY

STATION	TO	STATION	TYPICAL NO.	REMARKS	STATION	TO	STATION	TYPICAL NO.	REMARKS
B.O.P. 109+89	TO	112+10	4		161+75	TO	164+40	4	
112+10	TO	114+50	3		164+40	TO	165+60	7	
114+50	TO	115+05	5		165+60	TO	166+25	6	
115+05	TO	115+25	4		166+25	TO	168+50	1	
115+25	TO	115+60	2	TYP. NO. 5A WATERSIDE	168+50	TO	169+55	2	TYP. NO. 1 WATERSIDE
115+60	TO	115+90	2	TYP. NO. 1 WATERSIDE	169+55	TO	170+60	2	TYP. NO. 6 WATERSIDE
115+90	TO	117+75	2	TYP. NO. 6 WATERSIDE	170+60	TO	170+80	2	TYP. NO. 7 WATERSIDE
117+75	TO	118+25	2	TYP. NO. 1 WATERSIDE	170+80	TO	171+00	2	TYP. NO. 6 WATERSIDE
118+25	TO	118+75	1		171+00	TO	171+30	6	
118+75	TO	121+25	2	TYP. NO. 5A WATERSIDE	171+30	TO	174+15	1	
121+25	TO	121+75	2	TYP. NO. 6 WATERSIDE	174+15	TO	175+45	3	
121+75	TO	122+25	2	TYP. NO. 1 WATERSIDE	175+45	TO	177+15	1	
122+25	TO	122+45	2	*TYP. NO. 3 WATERSIDE	177+15	TO	177+25	6	
122+45	TO	122+85	2	TYP. NO. 1 WATERSIDE	177+25	TO	178+70	7	
122+85	TO	124+25	1		178+70	TO	178+90	6	
124+25	TO	125+00	5A		178+90	TO	E.O.P. 179+75	4	
125+00	TO	127+75	2	TYP. NO. 5A WATERSIDE					
127+75	TO	128+60	2	TYP. NO. 1 WATERSIDE					
128+60	TO	128+80	2	TYP. NO. 7 WATERSIDE					
128+80	TO	131+20	4						
131+20	TO	131+55	6						
131+55	TO	132+00	6						
132+00	TO	132+60	4						
132+60	TO	133+25	6						
133+25	TO	133+60	7						
133+60	TO	134+35	6						
134+35	TO	134+55	3						
134+55	TO	135+25	6						
135+25	TO	138+10	1						
138+10	TO	138+40	6						
138+40	TO	138+60	7						
138+60	TO	139+15	1						
139+15	TO	139+45	3						
139+45	TO	140+05	1						
140+05	TO	140+20	2	TYP. NO. 7 WATERSIDE					
140+20	TO	141+75	2	TYP. NO. 6 WATERSIDE					
141+75	TO	142+25	2	TYP. NO. 5A WATERSIDE					
142+25	TO	144+40	2	TYP. NO. 6 WATERSIDE					
144+40	TO	144+75	2	TYP. NO. 1 WATERSIDE					
144+75	TO	146+70	1						
146+70	TO	150+10	3						
150+10	TO	150+25	6						
150+25	TO	152+25	1						
152+25	TO	152+50	6						
152+50	TO	153+10	7						
153+10	TO	153+20	6						
153+20	TO	154+50	4						
154+50	TO	155+70	5						
155+70	TO	156+10	4						
156+10	TO	157+05	5						
157+05	TO	158+40	4						
158+40	TO	158+80	6						
158+80	TO	159+45	4						
159+45	TO	159+70	2	TYP. NO. 5 WATERSIDE					
159+70	TO	160+35	2	TYP. NO. 7 WATERSIDE					
160+35	TO	161+40	2	TYP. NO. 6 WATERSIDE					
161+40	TO	161+75	2	TYP. NO. 1 WATERSIDE					
				* SEE GENERAL NOTE 3					

Note: See Plan & Profile Sheets for Sections Used, Pgs 6-19
 See Pg 20 - Rockery Wall Summary/Welded Wire Wall Summary
 Pg 21 - Structure (Long Panels) Summary
 Pg 22 - Soldier Post Wall Summary

GENERAL NOTES:

1. TYPICAL SECTIONS AND TRANSITIONS MAY BE MODIFIED BY THE ENGINEER TO MATCH FIELD CONDITIONS.
2. CONTRACTORS SUBSTITUTION OF MATERIALS, EQUIPMENT, OR DESIGNS ARE PERMISSIBLE SUBJECT TO ENGINEER REVIEW AND APPROVAL.
3. SEE SHEET 29 FOR SPECIAL DETAIL REQUIRED FOR THIS ONE LOCATION.
4. TOTAL DOES NOT INCLUDE TREATED TIMBER REQUIRED TO CONSTRUCT SOLDIER POST WALL (TYPICAL NO. 2, SHT 2) OR GLULAM PANEL STRUCTURE (TYPICAL NO. 3, SHT 2). SEE SHEETS 21 & 22 FOR SEPARATE BREAKDOWN SUMMARIES. STRUCTURE ALTERNATE QUANTITIES (SHEETS 36 & 37) ARE ALSO SEPARATE.

DESCRIPTION	LOCATION	QUANTITY (MBM)	REMARKS
RUB RAIL	EXIST. GUARDRAIL	8.33	SEE SHT. 29 SUMMARY
APPROACH STRUCTURE	STA. 132+25	2.60	SEE SHT. 26 SUMMARY
GRAVEL SHIELD	TYP. NO. 2	4.38	SEE SHT. 22 SUMMARY
TIMBER RAMP	STA. 131+50	0.30	
TIMBER RAMP	STA. 133+00	1.10	SEE SHT. 27 SUMMARY
* TIMBER RAMP	STA. 153+15	0.40	
TIMBER STAIRS	STA. 168+70	1.00	
* Construct landing/Bulkhead for Down's Pile-Box			Steel Ramp (see pg 30)
		* SEE GENERAL NOTE 4	* TOTAL = 18.1

REMOVAL OF STRUCTURES AND OBSTRUCTIONS SUMMARY

STATION	DESCRIPTION	ACTION
109+89 TO 112+05	NEW CURB & GUTTER	REMOVE/DISPOSE PAVEMENT AFTER SAWCUT
112+20	CUTOFF POWER POLE	REMOVE/DISPOSE
114+90	POWER POLE	TEMPORARY SUPPORT FOR PP AFTER EMBANKMENT REMOVED.
121+35	CUTOFF POWER POLE	REMOVE/DISPOSE
121+35	BROKEN POST	REMOVE/DISPOSE
131+13	WOOD POST	REMOVE/DISPOSE
131+25 TO 132+50	PAVE AREA BETWEEN EXISTING ROAD & RECPATH	REMOVE/DISPOSE PAVEMENT AFTER SAWCUT
132+25	TIMBER APPROACH RAMP	REMOVE/DISPOSE PER SHEET 26
133+00	WOOD RAMP	REMOVE/DISPOSE PER SHEET 27
152+50 TO 154+50 158+15 TO 159+60 162+00 TO 164+50	PAVE AREA BETWEEN EXISTING ROAD & RECPATH	REMOVE/DISPOSE PAVEMENT AFTER SAWCUT
156+40	POWER POLE	PERMANENT SUPPORT FOR PP AFTER ROCK BACKSLOPE REMOVED.
165+40	TIMBER LANDING	REMOVE/DISPOSE
174+25	CUTOFF POWER POLE	REMOVE/DISPOSE
178+40	TIMBER STAIRS	REMOVE/DISPOSE

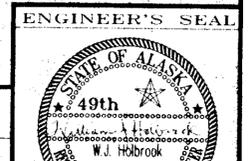
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DATE: _____
 DESCRIPTION OF CHANGE: _____

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

KETCHIKAN
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372

DESIGNED BY: W. HOLBROOK
 DRAWN BY: B. ADAMS
 PROJECT NO. 71372
 DATE: AUGUST 1995



ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	SHEET NUMBERS																	TOTAL
			6	7	8	9	10	11	12	13	14	15	16	17	18	19				
120(1)	DBE ADJUSTMENT	C.S.																	ALL REQ'D	
201(3B)	CLEARING & GRUBBING	L.S.																	ALL REQ'D	
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.																	ALL REQ'D	
202(12)	SAWCUTS	L.F.	215					125					200	145	250			125	1,935 1,060	
203(3)	UNCLASSIFIED EXCAVATION	C.Y.	10	50	100	150	250	100	200	25	200	100	200	200	180	60		60	15,683.825	
203(6D)	BORROW, TYPE "D"	TON	130	280	270	265	400	255	250	130	395	500	360	635	265	305		305	4,999.64,440	
203(6E)	BORROW, TYPE "E"	TON		115	45	25	290	160	375	45	235		215	270	340	225		225	2,601.22,340	
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	70	155	160		170	200	155	150	100	130	160	190	180	170		125	3,182.51,2,115	
304(4)	SUBBASE, GRADING "B"	L.S.																	ALL REQ'D	
401(1)	ASPHALT CONCRETE, TYPE II, CLASS "B"	TON	25	55	55	50	65	50	45	30	50	85	60	60	50	35		35	960.11 715	
401(2)	PBA-2 ASPHALT CEMENT	TON	1.5	3.3	3.3	3.0	3.9	3.0	2.7	1.8	3.0	5.1	3.6	3.6	3.0	2.1		2.1	53.57 42.9	
506(1)	TREATED TIMBER	L.S.																	ALL REQ'D	
509(1)	SOLDIER POST WALL	L.F.		300	410					380		395	75		230	50	200		1,969.8 2,040	
510(1)	GLULAM PANEL STRUCTURE (ALT.#1)	L.F.	190	50	20			20	30	230	110						130		780	
510(2)	CONCRETE PANEL STRUCTURE (ALT.#2)	L.F.	190	50	20			20	30	230	110						130		780	
510(3)	SAWN TIMBER STRUCTURE (ALT.#3)	L.F.	190	50	20			20	30	230	110						130		780	
511(1)	GEOWALL	SQ.F.		270	100	60	550	465	890	100	520	160	510	590	670	525		435	6,362.75,410	
512(1)	ROCKERY WALL	SQ.F.				60	220	50	20		270		325	420	70	435		435	2,504.1 4,870	
603(1-12)	12 INCH CORRUGATED STEEL PIPE	L.F.					5					25	50						42 80	
603(1-18)	18 INCH CORRUGATED STEEL PIPE	L.F.			10			5	20			10		15	5	20	10		96 95	
603(1-24)	24 INCH CORRUGATED STEEL PIPE	L.F.						10											120 10	
604(8)	SLOTTED DRAIN	L.F.											25						17.4 25	
606(1)	W-BEAM GUARDRAIL	L.F.	6.25	18.75	18.75	37.5	6.25					43.75		43.75	6.25		18.75		218.75 200	
606(8)	ECCENTRIC LOADER END ANCHORAGES	EACH	1	2	1	2	1					1		2	1		1		12	
607(3)	CHAINLINK FENCE	L.F.	200	295	230	60	210	275	430	290	265	40	180	175	185	330			1,515 3,165	
609(2)	CURB & GUTTER, TYPE 1	L.F.	215																	
611(1)	RIPRAP, CLASS 1	C.Y.			10	5	10	5	10			5	5	5						
615(1)	STANDARD SIGNS	SQ.F.	4	4		10	5	3	14.5	15					6					
615(2)	REMOVE AND RELOCATE EXISTING SIGNS	EACH	1	1	1					1		2	1							
618(5)	SEEDING	L.S.																	(APPROXIMATE QUANTITY = 2.1 ACRES)	
629(1)	TURNOUT FURNITURE	L.S.																	(APPROXIMATE QUANTITY = 6 BENCHES COMPLETE)	
633(1)	GEOTEXTILE, SEDIMENT CONTROL	L.F.		400	500	400	260	500	500	500	370	120	180	45						
640(1)	MOBILIZATION AND DEMOBILIZATION	L.S.																		
641(1)	TEMPORARY EROSION & POLLUTION CONTROL-ADMINISTRATION	L.S.																		
641(2)	TEMPORARY EROSION & POLLUTION CONTROL	L.S.																		
641(3)	TEMPORARY EROSION & POLLUTION CONTROL-MANPOWER	MAN-HR																		
642(1)	CONSTRUCTION SURVEYING	L.S.																		
643(2)	TRAFFIC MAINTENANCE	L.S.																		
643(3)	PERMANENT CONSTRUCTION SIGNING	L.S.																		
643(4)	CONSTRUCTION SIGN	EA./DAY	60	70	70	70	70	70	75	75	75	75	75	75	75	75	75	75		
643(7)	TRAFFIC CONE	EA./DAY	162	189	189	189	189	189	203	203	203	203	203	203	203	203	203	203		
643(8)	DRUM	EA./DAY	36	42	42	42	42	42	45	45	45	45	45	45	45	45	45	45		
643(15)	FLAGGING	HOURLY	108	126	126	126	126	126	135	135	135	135	135	135	135	135	135	135		
670(1)	PAINTED TRAFFIC MARKINGS	L.S.																		

* INCLUDES 7 SF @ STA 181+25 AND 7 SF @ STA 181+50

BASIS OF ESTIMATE

ITEM NO.	ESTIMATE FACTOR
203(6D)	1.85 TON PER CUBIC YARD
203(6E)	1.90 TON PER CUBIC YARD
301(1)	1.96 TON PER CUBIC YARD
304(4)	1.90 TON PER CUBIC YARD
401(1)	116 LBS. PER SQ. YARD PER INCH DEPTH
401(2)	6% OF ITEM 401(1) TYPE II

PARKING AREA/APPROACH SUMMARY

STATION	LENGTH	+ WIDTH	REMARKS
115+15	25'	16'	APPROACH-GRADE & PAVE WITH ASPHALT
131+60	17'	8'	APPROACH-MATCH EXISTING ASPHALT GRADE
132+25	40'	30'	APPROACH-SEE DETAILS SHT NO 26.
153+30	17'	5'	APPROACH-MATCH EXISTING ASPHALT GRADE
153+50	30'	5' TO 9'	PARKING AREA-GRADE & PAVE WITH ASPHALT
153+85	20'	22' TO 28'	APPROACH-GRADE & PAVE WITH ASPHALT
154+15	30'	28'	APPROACH-GRADE & PAVE WITH ASPHALT
156+00	20'	20'	APPROACH-GRADE & PAVE WITH ASPHALT
158+15	40'	25'	APPROACH-GRADE & PAVE WITH ASPHALT
159+25	30'	5'	APPROACH-GRADE & PAVE WITH ASPHALT
162+00	20'	20'	APPROACH-GRADE & PAVE WITH ASPHALT

URED FROM THE LEFT EDGE OF REC. PATH
VISTING PAVEMENT EDGE (IN SAWCUT AREAS)

EXCAVATION SUMMARY

QUANTITY	REMARKS
0	
760	SEE SHEET NO.2 TYPICALS AND SPECIAL PROVISIONS
30	SECTION 203
105	PREDOMINATELY ROCK
95	PREDOMINATELY ROCK
65	PREDOMINATELY ROCK
495	
175	Uncl. X Lump Sum 9.5 Per Change Order No. 3
1725 G.Y.	

GUARDRAIL END ANCHORAGE SUMMARY

STATION TO	STATION	EXISTING OFFSET FROM FOGLINE TO FACE GUARDRAIL AT END TERMINAL	NEW OFFSET FROM FOGLINE TO FACE GUARDRAIL AT END TERMINAL	REMARKS
112+06 ±	TO 112+37.25	7.5' ±	4.5'	REMOVE/DISPOSE 31.25' GR,INSTALL 6.25' NEW GR
114+51.75	TO 114+83 ±	4.5' ±	4.5'	REMOVE/DISPOSE 31.25' GR,INSTALL 6.25' NEW GR
115+67 ±	TO 116+04.5	7.3' ±	5.0'	REMOVE/DISPOSE 37.5' GR,INSTALL 12.5' NEW GR
123+00.25	TO 123+44 ±	6.5' ±	4.5'	REMOVE/DISPOSE 43.75' GR,INSTALL 18.75' NEW GR
125+52 ±	TO 126+04	7.5' ±	4.5'	REMOVE/DISPOSE 50' GR,INSTALL 25' NEW GR
128+52.5	TO 128+90 ±	7.5' ±	5.0'	REMOVE/DISPOSE 37.5' GR,INSTALL 12.5' NEW GR
132+61 ±	TO 132+81.25	6.5' ±	5.0'	REMOVE/DISPOSE 31.25' GR,INSTALL 6.25' NEW GR
150+68.25	TO 151+37 ±	7.3' ±	5.0'	REMOVE/DISPOSE 68.75' GR,INSTALL 43.75' NEW GR
159+61 ±	TO 159+92.25	5.3' ±	4.7'	REMOVE/DISPOSE 31.25' GR,INSTALL 6.25' NEW GR
161+26.50	TO 161+89 ±	7.5' ±	5.0'	REMOVE/DISPOSE 67.5' GR,INSTALL 37.5' NEW GR
164+51 ±	TO 164+76	6.5' ±	5.0'	REMOVE/DISPOSE 25' GR,INSTALL 12.5' NEW GR
177+52.25	TO 178+20 ±	6.5' ±	5.0'	REMOVE/DISPOSE 43.75' GR,INSTALL 18.75' NEW GR
TOTAL NEW GR=193.75 LF.*				
* TOTAL NEW GUARDRAIL REQUIRED TO ELIMINATE EXISTING FLARES. DOES NOT INCLUDE THE 25' OF NEW GUARDRAIL REQUIRED FOR EACH NEW END ANCHORAGE AS DETAILED ON SHEETS 24 & 25. DOES NOT INCLUDE 6.25' AT STATION 165+50.				

STATION	PIPE DIAMETER	LENGTH	REMARKS
120+65	18"	10'	EXTEND CULVERT PIPE
131+80	12"	16' 5"	EXTEND CULVERT PIPE EXISTING CMP BRIDGE CULVERT - cutoff bridge
133+45	24"	12' 10"	EXTEND CULVERT PIPE Solid Pipe to Match - Typical of existing CMP
138+55	18"	7' 5"	EXTEND CULVERT PIPE condition on Project
140+20	18"	8' 10"	EXTEND CULVERT PIPE
141+18	18"	20' 10"	BURIED END, UNCOVER & SPLICE CULVERT PIPE
150+48	18"	10'	BURIED END, UNCOVER & SPLICE CULVERT PIPE
154+20	12"	25'	SLOTTED DRAIN PIPE
158+40	12"	17.4' 25"	SLOTTED DRAIN PIPE
158+95	12"	25'	BURIED END, UNCOVER & SPLICE CULVERT PIPE Delete - Do Pipe Re-lace.
162+00	18"	3' 15"	BURIED END, UNCOVER & SPLICE CULVERT PIPE 11-24' length & Cleaned (see)
165+32	18"	12' 5"	DAMAGED END, REMOVE DAMAGED PIPE, SPLICE NEW PIPE, & EXTEND.
170+57	18"	10'	DAMAGED END, REMOVE DAMAGED PIPE, SPLICE NEW PIPE, & EXTEND.
173+48	18"	18' 10"	DAMAGED END, REMOVE DAMAGED PIPE, SPLICE NEW PIPE.
175+80	18"	10'	BURIED END, UNCOVER & SPLICE CULVERT PIPE Delete

NOTE:
CLASS 1 RIPRAP 1' THICK, 3 PIPE DIAMETERS WIDE, SHALL BE REQUIRED FOR ALL PERCHED PIPES.

ENGINEER'S SEAL



"R" LINE RECPATH CONTROL SUMMARY

"R" STATION	BEARING DISTANCE	NORTHING EASTING	REMARKS	"R" STATION	BEARING DISTANCE	NORTHING EASTING	REMARKS
B.O.P. 109 + 89.72	S 37° 54' 25" E 47.97'	7019.3597 24293.2663 6981.5100 24322.7400		PI 160 + 74.57	S 67° 22' 29" E 52.25'	3361.2007 27704.4192 1342.5324	
P.C. 110 + 37.69	S 33° 12' 34" E 100.84'	6961.5000 24337.0400 24392.2700	CURVE DATA Δ = 4' 41' 51" RT. R = 300'	PI 161 + 23.09	S 66° 27' 34" E 48.53'	27749.2117 3325.8328	
PT 110 + 62.29	S 35° 50' 36" E 61.37'	6865.7700 24400.0900		PI 161 + 64.91	S 64° 39' 08" E 41.81'	27787.5439 3311.4905	
PC 111 + 63.13	S 37° 02' 53" E 26.26'	6659.7846 24539.4285 6611.3581		PC 161 + 98.41	S 76° 03' 52" E 9.00'	27814.8198 3294.7988	CURVE DATA Δ = 11' 24' 45" LT. R = 250'
PT 111 + 76.92	S 34° 10' 37" E 59.44'	6597.5247 24577.0613	CURVE DATA Δ = 8' 32' 43" LT. R = 468.48'	PT 162 + 48.20	S 71° 26' 21" E 33.96'	27864.6413 27873.3745	
PC 112 + 38.29 BK	S 30° 11' 48" E 45.96'	6500.4526 24648.2789		PC 162 + 57.20	S 71° 50' 26" E 46.57'	27904.3695 3272.7679	
PI 114 + 25.63	S 36° 53' 31" E 65.23'	5955.2153 25193.3525		PT 162 + 89.49	S 71° 50' 26" E 33.96'	27904.3695 3272.7679	
PI 114 + 82.39	S 34° 44' 13" E 19.77'	5824.7219 25204.8523		PI 163 + 23.46	S 71° 50' 26" E 33.96'	27904.3695 3272.7679	
PC 114 + 98.40	S 33° 49' 23" E 31.96'	5808.4257 25296.1571		PC 163 + 70.03	S 64° 13' 04" E 2.92'	27980.8144 3247.0638	CURVE DATA Δ = 7' 37' 22" RT. R = 225'
PT 115 + 68.27	S 33° 49' 23" E 31.96'	5791.9264 25313.9459		PT 163 + 99.96	S 64° 13' 04" E 2.92'	28008.5548 3247.0638	
PI 116 + 18.94	S 29° 08' 03" E 59.31'	5564.1800 25435.7736		PC 164 + 02.88	S 72° 58' 56" E 69.29'	28011.1869 3234.7900	CURVE DATA Δ = 11' 51' 00" LT. R = 175'
PI 123 + 00.80	S 37° 02' 53" E 26.26'	5512.3684 25464.6520		PT 164 + 39.08 BK	S 72° 58' 56" E 69.29'	28045.1682 3225.5136	
PI 123 + 27.07	S 36° 53' 31" E 65.23'	5399.6715 25564.5643		PI 164 + 73.12	S 73° 46' 48" E 4.44'	28077.4422 28077.4422	
PC 123 + 92.30	S 53° 59' 01" E 50.57'	5369.9326 25608.4717		PI 177 + 23.18	S 57° 07' 15" E 50.69'	2365.9101 28952.9400	
PT 124 + 92.28	S 46° 53' 37" E 15.46'	5299.0464 25691.2757		PI 177 + 73.87	S 60° 42' 00" E 51.94'	2338.3925 28995.5097	
PI 125 + 51.72	S 53° 52' 28" E 28.18'	5276.8340 25716.6344		PC 178 + 25.81	S 79° 33' 19" E 5.61'	2312.9738 29040.8054	CURVE DATA Δ = 18' 51' 18" LT. R = 271.01'
PI 125 + 71.49	S 53° 52' 28" E 28.18'	5260.2192 25739.5977		PT 179 + 14.99	S 73° 46' 48" E 4.44'	2270.2609 29178.4122	
PI 126 + 03.45	S 53° 52' 28" E 28.18'	5260.2192 25739.5977		PC 179 + 20.60	S 73° 46' 48" E 4.44'	2270.2609 29178.4122	
PI 128 + 52.97	S 53° 52' 28" E 28.18'	5260.2192 25739.5977		PT 179 + 70.56	S 73° 46' 48" E 4.44'	2270.2609 29178.4122	
PC 129 + 12.88	S 53° 59' 01" E 50.57'	5299.0464 25691.2757		EOP 179 + 75	S 73° 46' 48" E 4.44'	2269.0207 29182.6755	
PT 130 + 64.08	S 46° 53' 37" E 15.46'	5299.0464 25691.2757					
PC 131 + 14.65	S 46° 53' 37" E 15.46'	5299.0464 25691.2757					
PT 132 + 26.02	S 46° 53' 37" E 15.46'	5299.0464 25691.2757					
PC 132 + 41.48	S 53° 52' 28" E 28.18'	5276.8340 25716.6344					
PT 132 + 59.76	S 53° 52' 28" E 28.18'	5260.2192 25739.5977					
PI 132 + 87.08	S 53° 52' 28" E 28.18'	5260.2192 25739.5977					
PI 150 + 71.42	S 46° 42' 57" E 32.92'	3809.7242 26870.7507					
PI 151 + 04.34	S 45° 47' 57" E 36.97'	3887.1523 26894.7167					
PC 151 + 41.31	S 53° 50' 19" E 15.19'	3861.3786 26921.2197					
PT 151 + 72.88	S 53° 50' 19" E 15.19'	3841.0259 26945.3199					
PC 151 + 88.07	S 52° 11' 07" E 199.86'	3832.0623 26957.5844					
PT 151 + 99.62	S 52° 11' 07" E 199.86'	3825.1188 26968.8031					
PC 153 + 99.48	S 49° 36' 08" E 26.65'	3691.2082 27138.6853					
PT 154 + 44.16	S 55° 34' 36" E 57.33'	3673.9389 27158.9782					
PI 155 + 14.00 BK	S 55° 34' 36" E 57.33'	3648.5113 27192.0829					
PI 155 + 71.37	S 57° 01' 56" E 49.49'	3600.2986 27262.5902					
PI 156 + 20.86	S 58° 00' 49" E 49.10'	3573.3689 27304.1094					
PI 156 + 69.96	S 59° 33' 43" E 81.90'	3547.3599 27345.7558					
PC 157 + 51.85	S 61° 26' 50" E 70.56'	3505.8701 27416.3643					
PT 158 + 50.57	S 61° 26' 50" E 70.56'	3457.2710 27502.2780					
PC 159 + 21.12	S 67° 24' 37" E 35.55'	3423.5476 27584.2434					
PT 159 + 52.35	S 65° 45' 49" E 34.42'	3410.0770 27592.4049					
PI 159 + 87.90	S 66° 11' 38" E 34.42'	3396.4210 27625.2280					
PI 160 + 22.32	S 66° 11' 38" E 34.42'	3382.2910 27656.6154					

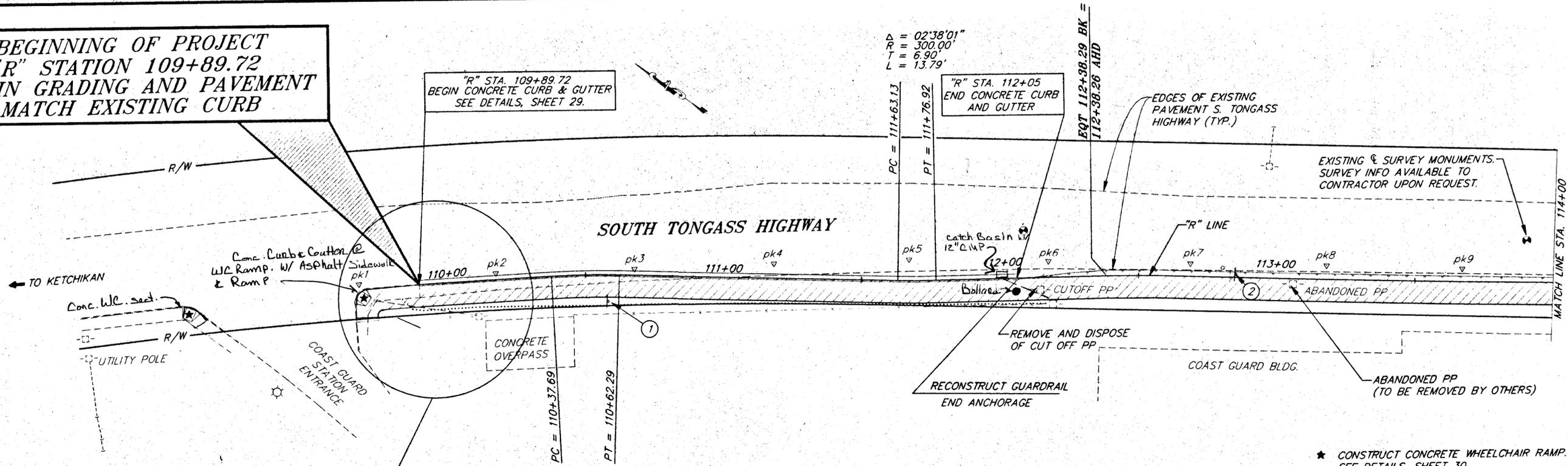
"PK" NAIL OFFSET SUMMARY

"PK" NAIL NUMBER	BEARING DISTANCE	NORTHING EASTING	"R" STATION/OFFSET	FIELD CONTROL POINT	BEARING DISTANCE	NORTHING EASTING	"R" STATION/OFFSET
PK #1	S 38° 09' 36" E 50.04'	7038.0380 24280.9760	110+17.47 2.00' LT.	101	S 49° 37' 46" E 64° 46' 36" E	3408.4030 27613.2100	159+72.19 6.45' LT.
2	S 37° 19' 00" E 50.04'	6998.6930 24311.8930	110+17.47 2.00' LT.	102	S 66° 23' 19" E 50.02'	3387.0870 27658.4610	160+22.03 5.13' LT.
3	S 36° 10' 06" E 49.97'	6958.8810 24342.2400	110+67.33 2.91' LT.	103	S 67° 15' 27" E 49.96'	3367.0730 27704.2370	160+72.03 5.30' LT.
4	S 35° 24' 28" E 49.97'	6918.5370 24371.7330	111+17.24 5.49' LT.	104	S 67° 58' 55" E 49.92'	3347.7430 27750.3600	161+22.15 5.25' LT.
5	S 34° 01' 05" E 49.98'	6877.8010 24400.6910	111+67.29 7.38' LT.	105	S 68° 25' 35" E 50.01'	3329.0270 27796.6420	161+71.76 6.78' LT.
6	S 33° 09' 18" E 50.01'	6836.3500 24428.8690	112+17.51 5.94' LT.	106	S 69° 51' 51" E 49.99'	3310.6440 27843.1350	162+25.55 8.95' LT.
7	S 32° 26' 17" E 49.92'	6794.4940 24456.0120	112+67.20 4.51' LT.	107	S 71° 21' 09" E 50.02'	3293.4690 27889.9770	162+72.91 5.14' LT.
				108	S 71° 58' 15" E 50.01'	3277.4870 27937.3370	163+22.69 4.72' LT.
10	S 33° 26' 31" E 49.94'	6669.1040 24484.1600	114+17.18 4.14' LT.	109	S 72° 06' 10" E 49.94'	3262.0080 27984.8940	163+72.67 4.85' LT.
11	S 33° 37' 42" E 50.07'	6627.4280 24565.6840	114+66.83 5.21' LT.	110	S 71° 55' 11" E 50.05'	3246.6600 28032.4200	164+22.68 8.96' LT.
12	S 34° 35' 09" E 49.97'	6585.7900 24593.3780	115+17.06 7.83' LT.	111	S 71° 58' 23" E 50.02'	3231.0850 28079.9870	164+73.85 6.08' LT.
13	S 37° 01' 51" E 49.97'	6544.6480 24621.7450	115+67.85 6.96' LT.	112	S 72° 58' 01" E 50.08'	3215.2870 28127.4490	165+23.65 5.44' LT.
14	S 39° 26' 17" E 49.92'	6503.7900 24651.8220	116+17.78 5.47' LT.	137	S 62° 12' 59" E 49.94'	2342.9650 28997.9920	177+73.47 5.19' LT.
15	S 39° 58' 47" E 50.07'	6466.2270 24683.5320	116+67.90 5.61' LT.	138	S 66° 26' 48" E 50.03'	2319.6850 29042.1770	178+23.72 6.52' LT.
27	S 39° 58' 47" E 50.07'	6056.0080 25129.6700	122+68.36 4.51' LT.	139	S 70° 23' 37" E 50.03'	2299.6920 29088.0410	178+75.07 7.19' LT.
28	S 38° 32' 25" E 50.07'	6014.8440 25152.8380	123+18.07 5.17' LT.	140	S 72° 58' 01" E 49.93'	2282.8890 29135.2130	179+25.68 2.10' LT.
29	S 37° 22' 11" E 49.98'	5978.5660 25184.0600	123+68.06 6.61' LT.	141	S 72° 58' 01" E 49.93'	2268.2630 29182.9540	179+75.48 0.65' RT.
30	S 35° 48' 39" E 49.97'	5938.8420 25214.3980	124+17.95 7.13' LT.				
31	S 34° 15' 30" E 49.97'	5898.3200 25243.6350	124+67.74 7.36' LT.				
32	S 32° 14' 26" E 50.04'	5856.9640 25271.8020	125+17.69 7.28' LT.				
33	S 32° 14' 26" E 50.04'	5814.8060 25298.7360	125+67.76 5.73' LT.				
34	S 31° 25' 44" E 50.06'	5772.0890 25324.8400	126+17.44 4.45' LT.				
38	S 30° 14' 50" E 49.98'	5597.6620 25422.5870	128+17.27 4.56' LT.				
39	S 32° 13' 56" E 49.98'	5554.4840 25447.7650	128+67.28 5.75' LT.				
40	S 35° 44' 42" E 49.99'	5512.2000 25474.8280	129+17.31 8.42' LT.				
41	S 40° 21' 54" E 49.99'	5471.8480 25503.6140	129+68.64 9.81' LT.				
42	S 45° 36' 53" E 49.95'	5433.5020 25536.0770	130+20.40 7.91' LT.				
43	S 50° 32' 09" E 49.93'	5398.5650 25571.7720	130+70.56 3.34' LT.				
44	S 52° 47' 00" E 49.95'	5366.9300 25610.8200	131+20.40 0.36' LT.				
45	S 52° 47' 00" E 49.95'	5336.4930 25650.1810	131+70.46 0.97' LT.				
46	S 52° 01' 53" E 49.91'	5306.2810 25689.9600	132+20.15 4.40' LT.				
47	S 49° 53' 59" E 50.06'	5275.5730 25729.3900	132+69.88 6.45' LT.				
48	S 49° 53' 59" E 50.06'	5244.3270 25767.6020	133+19.34 4.53' LT.				
83	S 48° 19' 27" E 49.97'	3914.0450 26873.0600	150+70.26 4.76' LT.				
84	S 48° 41' 50" E 49.96'	3880.8170 26910.3860	151+19.99 6.38' LT.				
85	S 49° 11' 57" E 49.96'	3847.9080 26947.8440	151+70.80 7.03' LT.				
86	S 50° 07' 58" E 50.15'	3815.3240 26985.7230	152+20.57 3.86' LT.				
87	S 50° 56' 25" E 49.95'	3783.1780 27024.2140	152+70.68 2.07' LT.				
88	S 51° 01' 19" E 49.95'	3751.0870 27062.8970	153+20.62 0.98' LT.				
89	S 53° 03' 35" E 50.01'	3720.9670 27102.4420	153+70.63 0.88' LT.				
90	S 53° 52' 46" E 50.07'	3690.8750 27142.4620	154+20.60 2.19' LT.				
91	S 55° 13' 42" E 50.06'	3661.3850 27182.9000	154+70.88 5.05' LT.				
92	S 56° 19' 43" E 49.98'	3632.8380 27223.8580	155+21.10 5.02' LT.				
93	S 57° 02' 08" E 49.90'	3605.0370 27265.3630	155+71.14 5.59' LT.				
94	S 57° 54' 11" E 49.95'	3577.8870 27307.4270	156+21.28 5.59' LT.				
95	S 58° 37' 57" E 50.04'	3551.3440 27349.7450	156+71.38 5.45' LT.				
96	S 60° 01' 08" E 49.9						

**BEGINNING OF PROJECT
"R" STATION 109+89.72
BEGIN GRADING AND PAVEMENT
MATCH EXISTING CURB**

"R" STA. 109+89.72
BEGIN CONCRETE CURB & GUTTER
SEE DETAILS, SHEET 29.

"R" STA. 112+05
END CONCRETE CURB
AND GUTTER



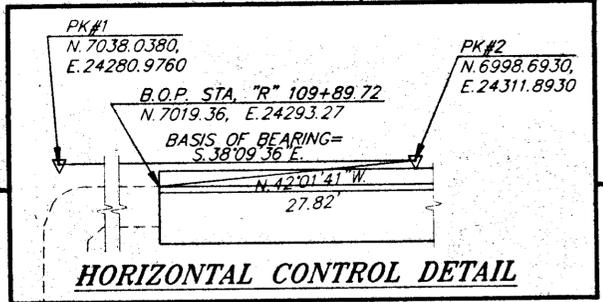
EXISTING & SURVEY MONUMENTS.
SURVEY INFO AVAILABLE TO
CONTRACTOR UPON REQUEST.

★ CONSTRUCT CONCRETE WHEELCHAIR RAMP.
SEE DETAILS, SHEET 30.

▨ DENOTES RECREATION PATH

(X) DENOTES NEW SIGN LOCATION.
SEE SUMMARY SHEET 31.

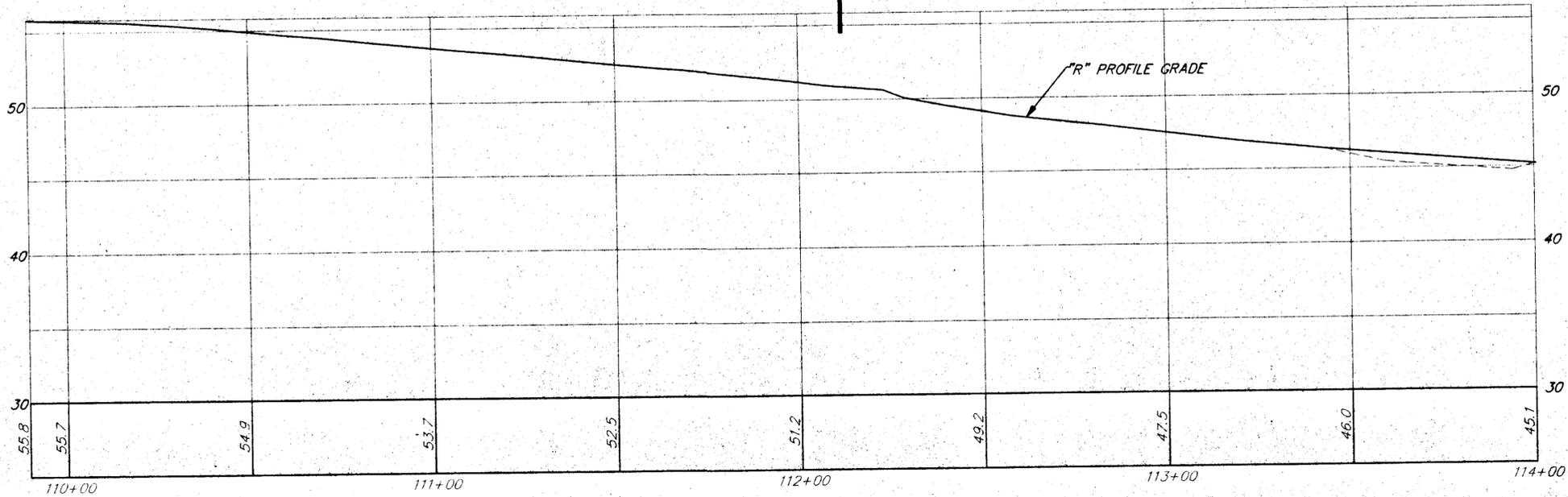
HORIZONTAL CONTROL
THE BASIS OF HORIZONTAL CONTROL FOR
THIS PROJECT IS DERIVED FROM THE PK NAILS
#1 AND #2 (PK #2 AT "R" STA. 110+17.42,
2.00' LT.) WITH A BEARING OF S.38°09'36"E.



VERTICAL CONTROL
THE BASIS OF VERTICAL CONTROL IS THE PK
NAIL #2 AT "R" STA. 110+17.42, 2.00' LT.
WITH AN ELEVATION OF 55.73 MLLW.

$\Delta = 04^{\circ}41'51''$
 $R = 300.00'$
 $T = 12.30'$
 $L = 24.60'$

SPECIAL DETAIL SHEET 29 ← TYP. NO. 3



NOTE:
PROFILE GRADE SHALL BE CONSTRUCTED
AS NEAR AS PRACTICAL TO EXISTING
GRADE EXCEPT WHERE OTHERWISE NOTED
IN THESE PLANS.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\K7N\71372\DR\ -P109 PLOTH.PCP(20) OR PLOTH.PCP(40)
BY: DATE: DESCRIPTION OF CHANGE:

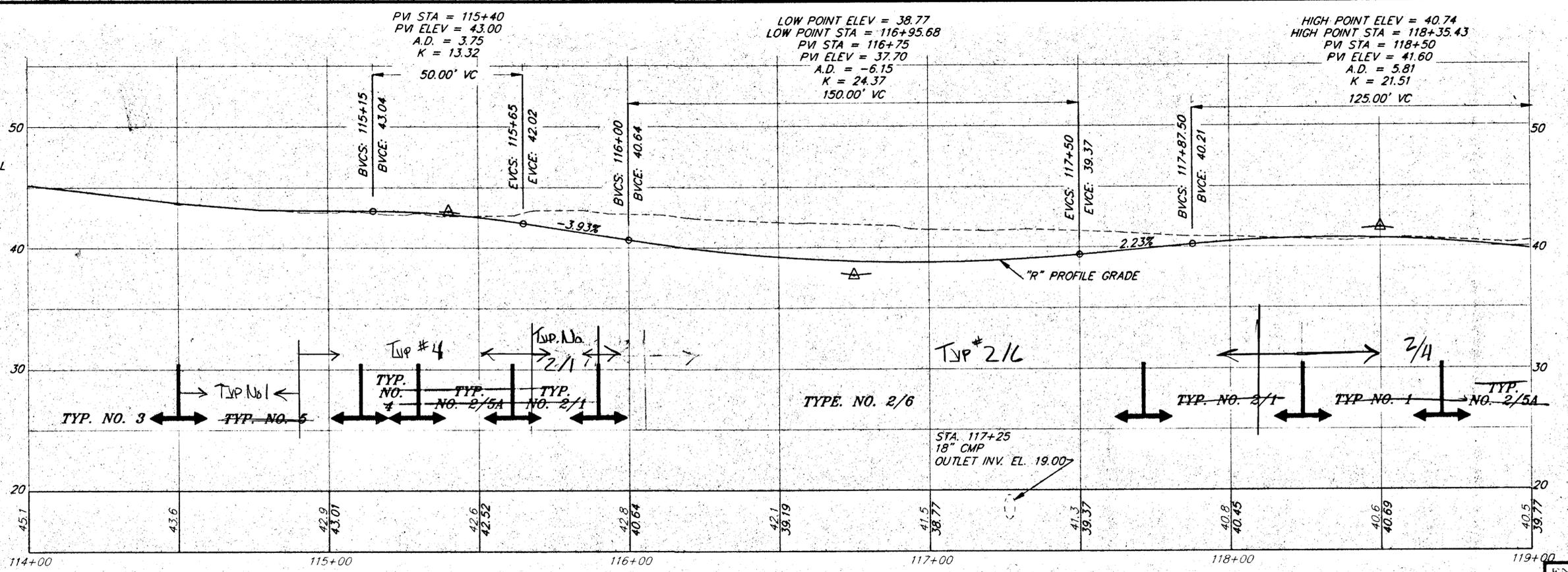
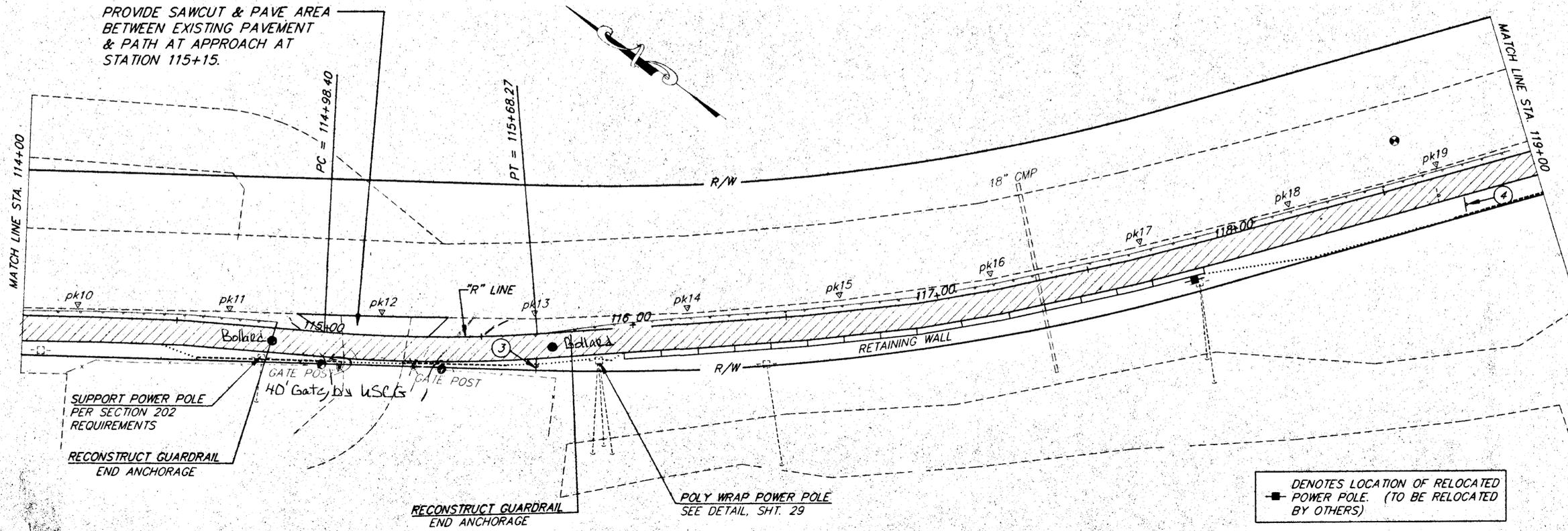
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

KETCHIKAN SOUTH TONGASS HIGHWAY ALASKA
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372

DESIGNED BY: W. HOLBROOK
DRAWN BY: C. ANDERSON

PROJECT NO. 71372
DATE: AUGUST 1995





LEGEND:
 FOR TYP NO. 2/5A (FOR EXAMPLE)
 2 DENOTES APPLICATION OF
 NO. 2 TO UPHILL (LEFT) SIDE OF
 TYPICAL.
 5A DENOTES APPLICATION OF
 TYPICAL NO. 5A TO LOWER (RIGHT)
 SIDE OF TYPICAL.

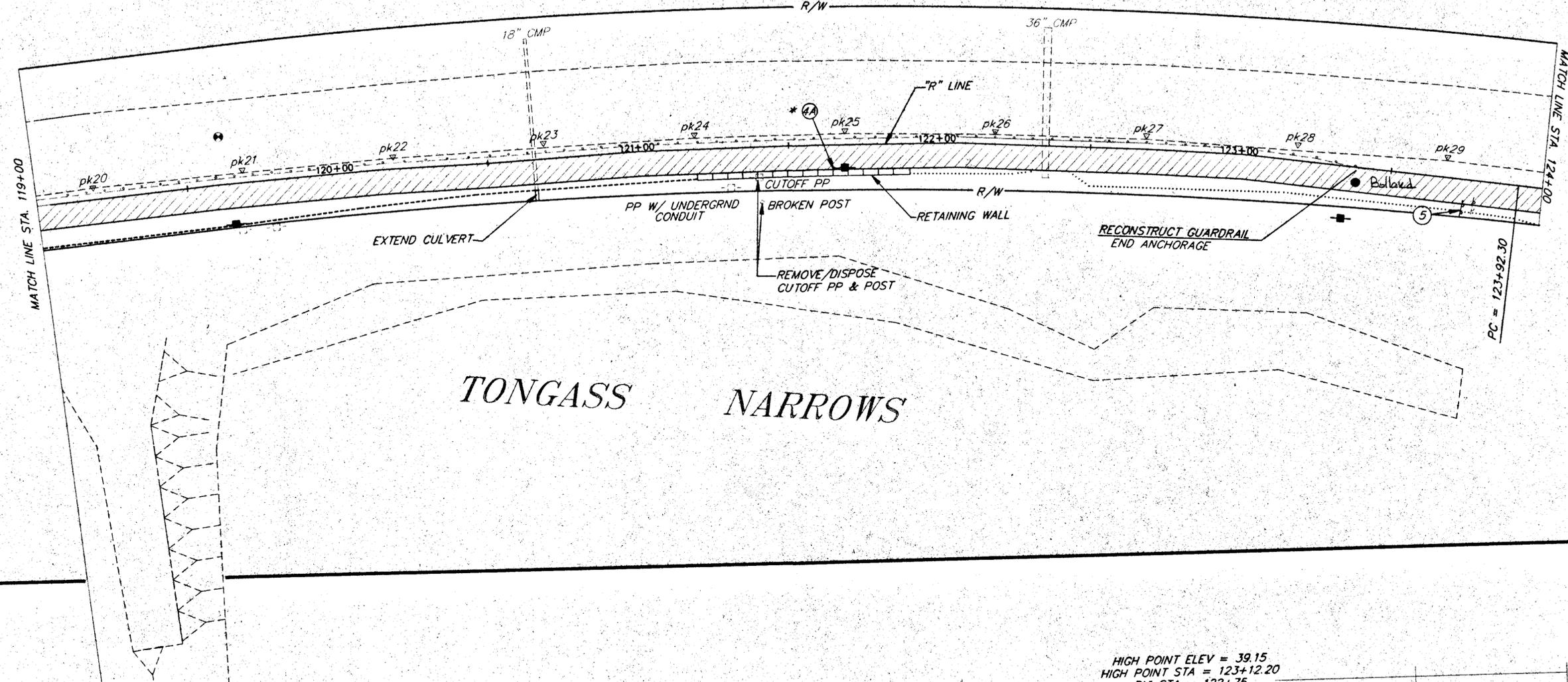
PATH: P:\ATN\71372\DRG-P114 PLOT: POF(20) OR PLOT: POF(40)		STATE OF ALASKA		KETCHIKAN		SOUTH TONGASS HIGHWAY		ALASKA	
BY: _____		DEPARTMENT OF TRANSPORTATION		COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH		PROJECT NO. 71372		DESIGNED BY: W. HOLBROOK	
DATE: _____		DESCRIPTION OF CHANGE: _____		"R" STA: 114+00 TO "R" STA: 119+00		DRAWN BY: _____		PROJECT NO. 71372	
								DATE: AUGUST 1995	

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

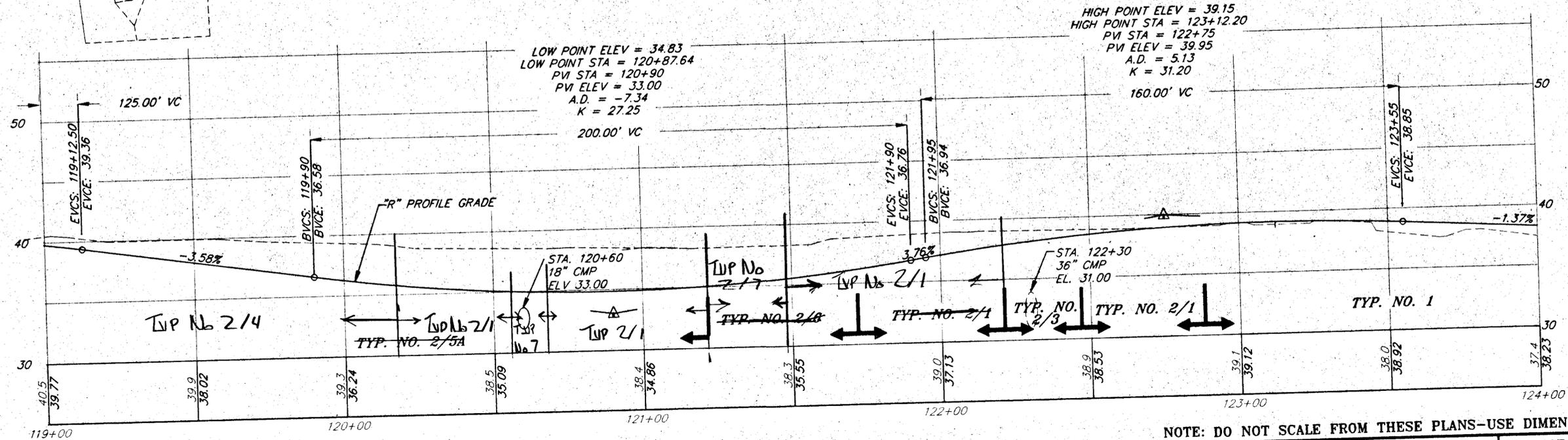
ENGINEER'S SEAL



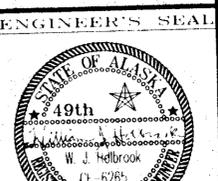
***NOTE:**
 RELOCATE SIGN (6) TO THIS LOCATION
 WHEN NEW POWER POLE IS INSTALLED
 HERE & POWER POLE AT SIGN (6) LOCATION
 IS REMOVED.

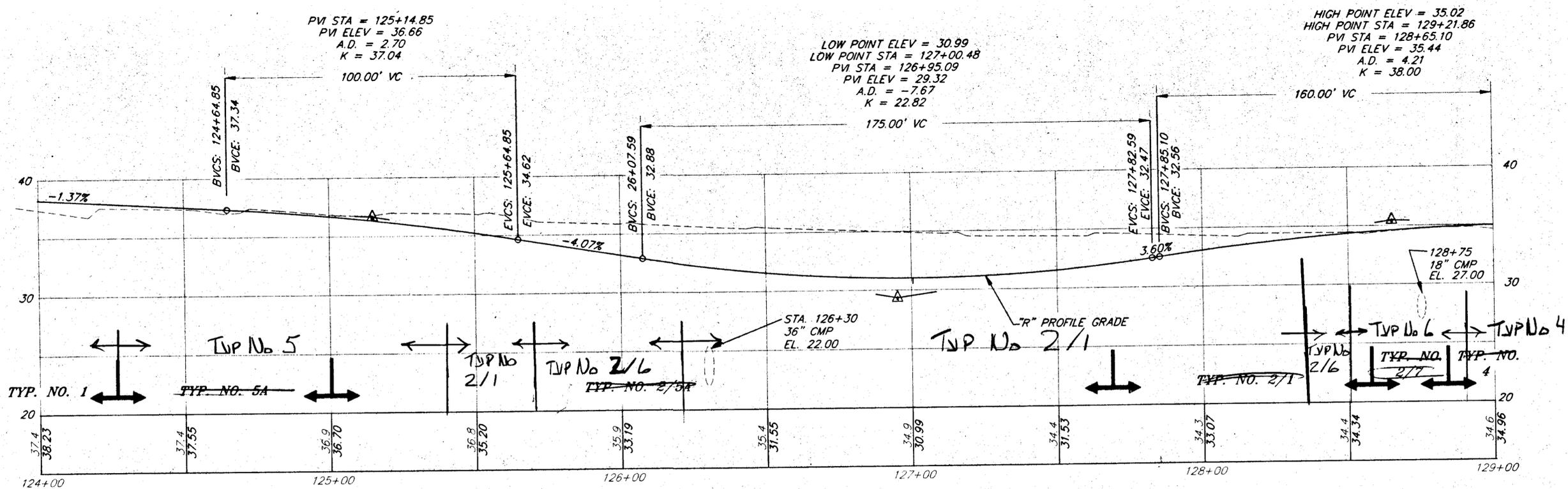
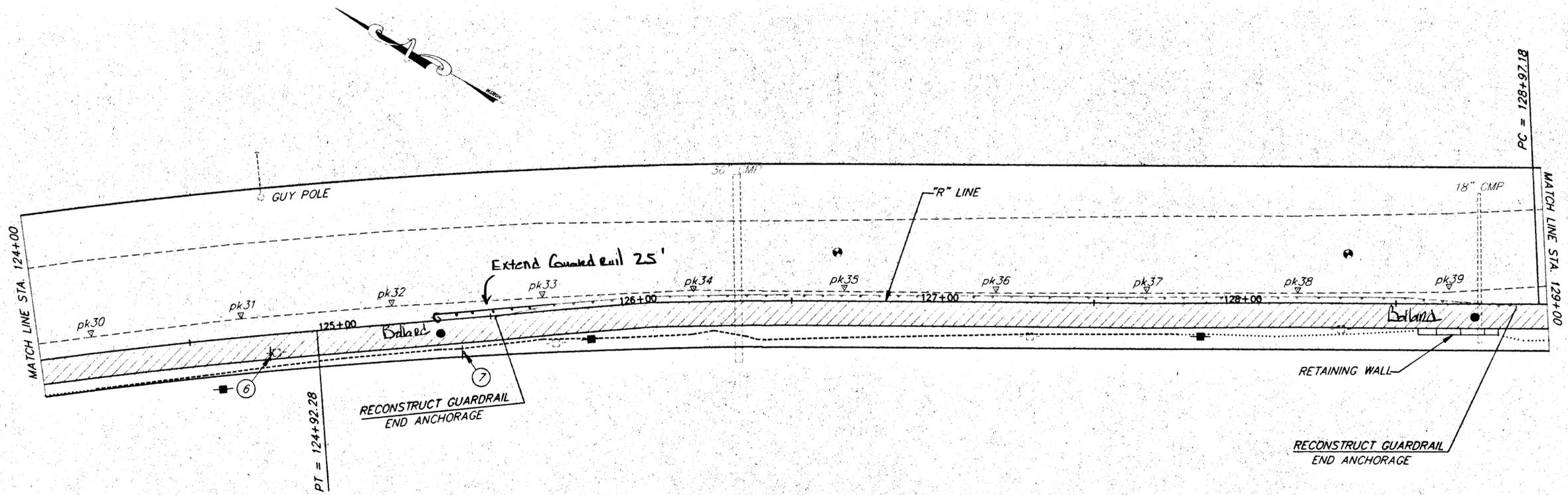


TONGASS NARROWS



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS





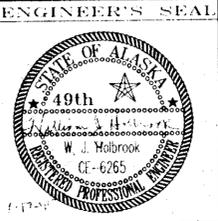
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

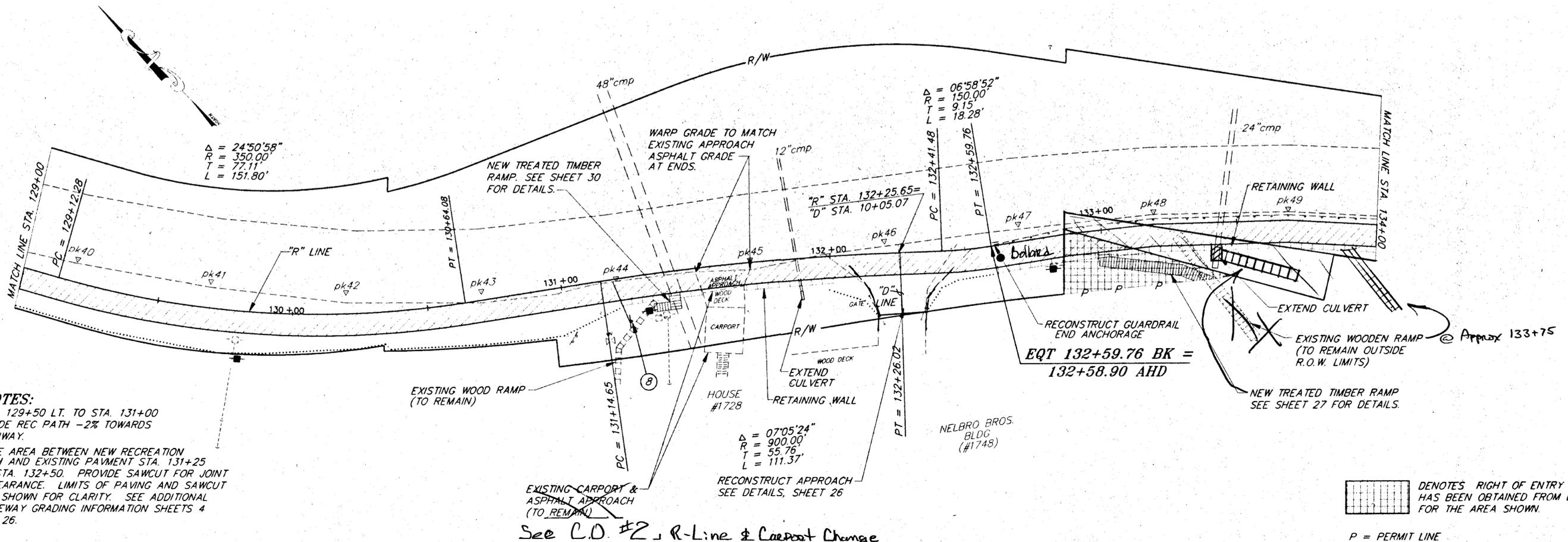
PATH: P:\ktn\71362\DR\ -P124 PLOTH.PCP(20) OR PLOTH.PCP(40)	
BY:	DATE:
DESCRIPTION OF CHANGE:	

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372
"R" STA. 124+00 TO "R" STA. 129+00
 PLAN & PROFILE

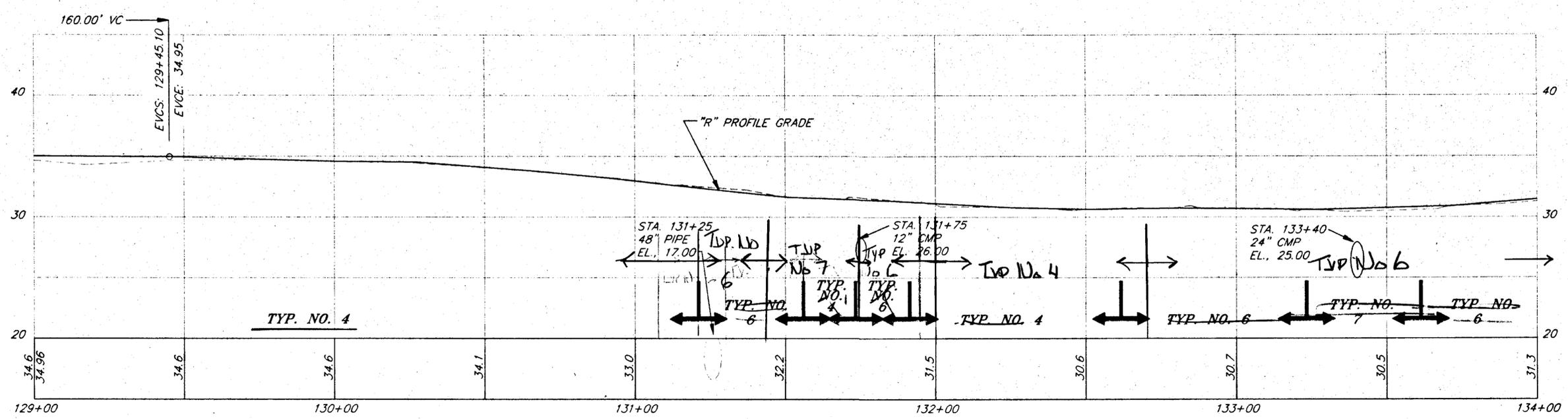
DESIGNED BY: W. HOLBROOK	PROJECT NO. 71372
DRAWN BY: C. ANDERSON	DATE: AUGUST 1995
CHECKED BY: C. MORROW	SHEET 9 OF 37





- NOTES:**
1. STA. 129+50 LT. TO STA. 131+00 GRADE REC PATH -2% TOWARDS HIGHWAY.
 2. PAVE AREA BETWEEN NEW RECREATION PATH AND EXISTING PAVMENT STA. 131+25 TO STA. 132+50. PROVIDE SAWCUT FOR JOINT APPEARANCE. LIMITS OF PAVING AND SAWCUT NOT SHOWN FOR CLARITY. SEE ADDITIONAL DRIVEWAY GRADING INFORMATION SHEETS 4 AND 26.

See C.D. #2, R-Line & Carport Change



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

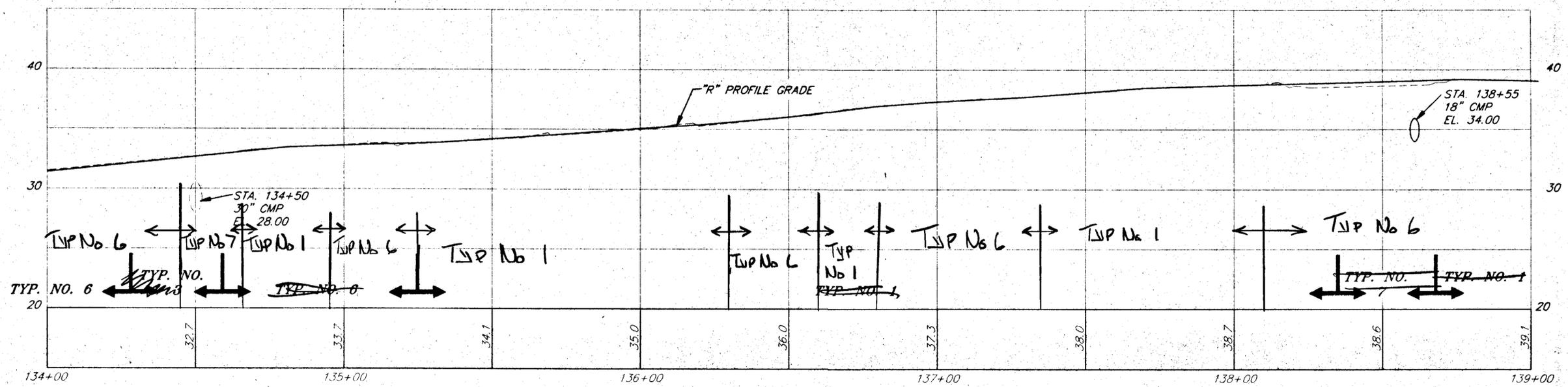
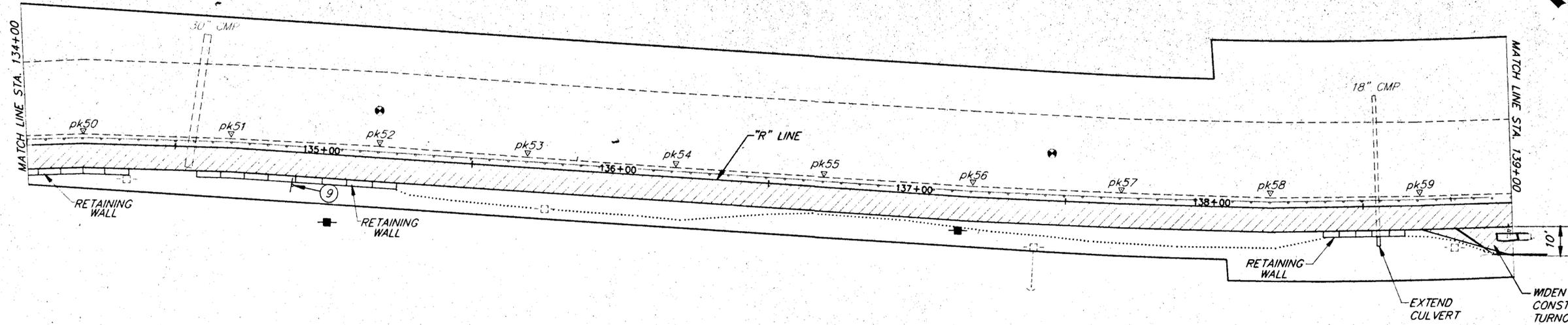
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 BY: DATE: DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION

KETCHIKAN
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372
 ALASKA

DESIGNED BY: W. HOLBROOK
 DRAWN BY:
 PROJECT NO. 71372
 DATE:





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

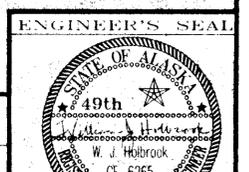
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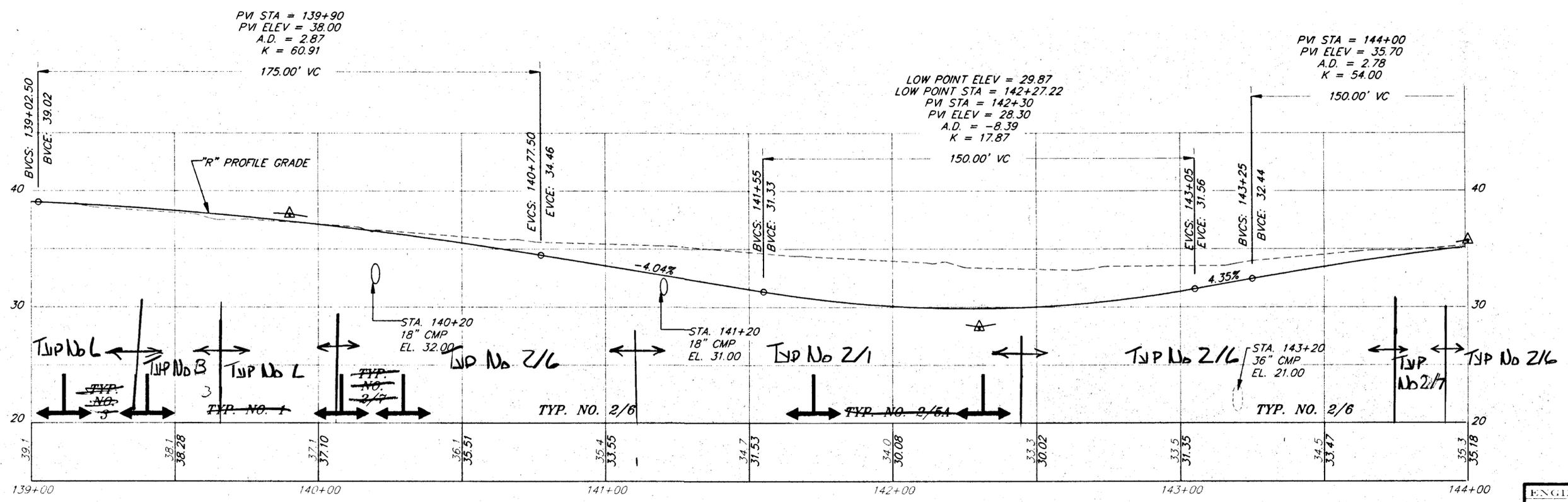
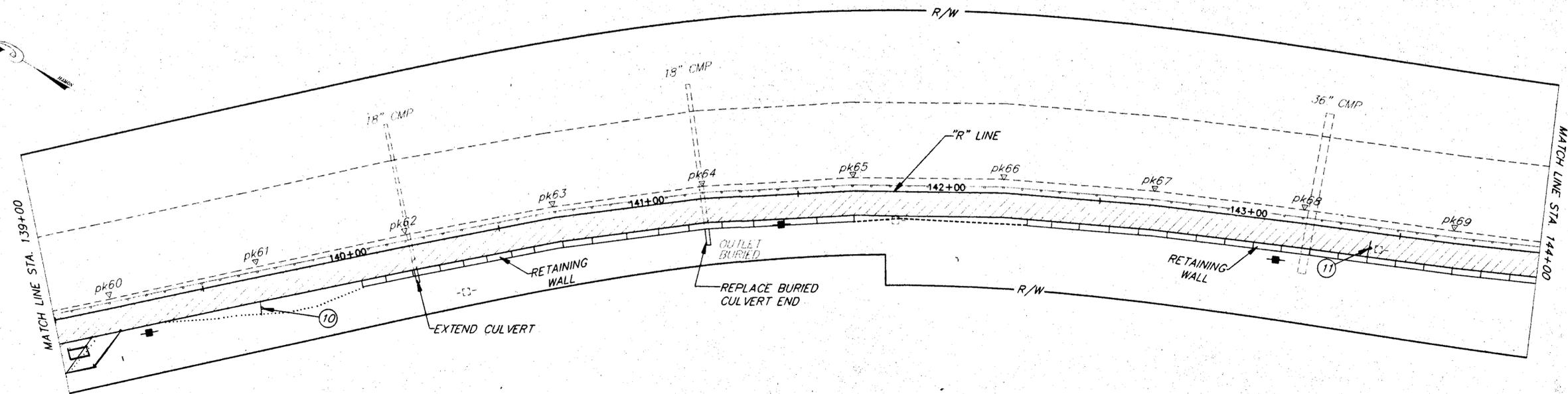
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION

KETCHIKAN
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372
 ALASKA

DESIGNED BY: W. HOLBROOK
 DRAWN BY:

PROJECT NO. 71372
 DATE:





NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

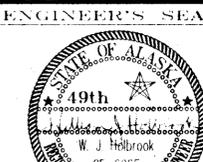
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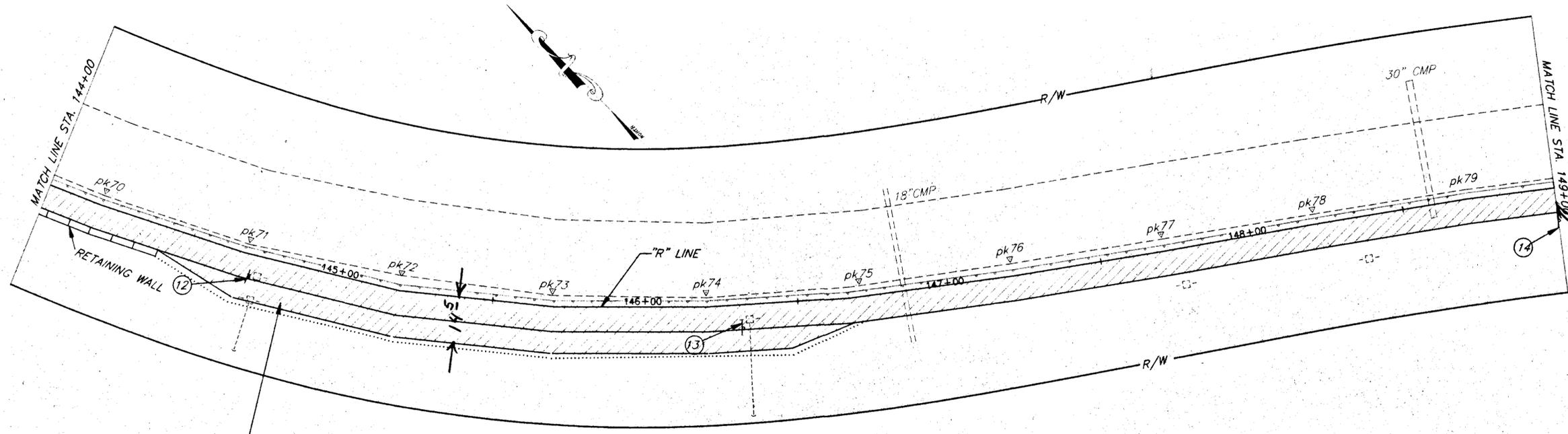
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION

KETCHIKAN
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372

ALASKA
 DESIGNED BY: W. HOLBROOK
 DRAWN BY:

PROJECT NO. 71372
 DATE:

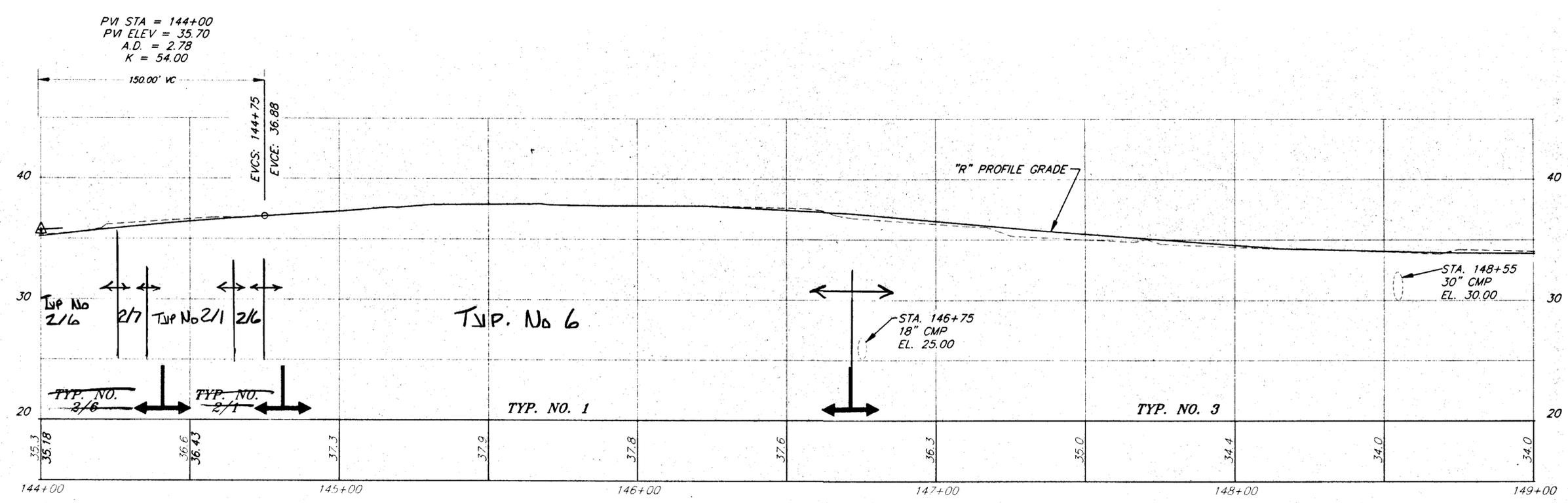




5° Pt in Conc. Panel Structure

WIDEN PATH AND CONSTRUCT 7'X225' TURNOUT AREA INSTALL 4 BENCHES AS PER DETAILS ON SHEET 29.

NOTE:
 APPLY TYPICAL NO. 1 SHEET 2 FOR TURNOUT AREAS, EXCEPT THAT 9 FOOT WIDTH DIMENSION VARIES DEPENDENT UPON AVAILABLE WIDTH (9'MIN.).



NOTE: DO NOT SCALE FROM THESE PLANS--USE DIMENSIONS

PATH: P:\KTN\71372\DR\ -P144 PLOT.PCP(20) OR PLOT.PCP(40)
 BY: DATE: DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION

KETCHIKAN
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372

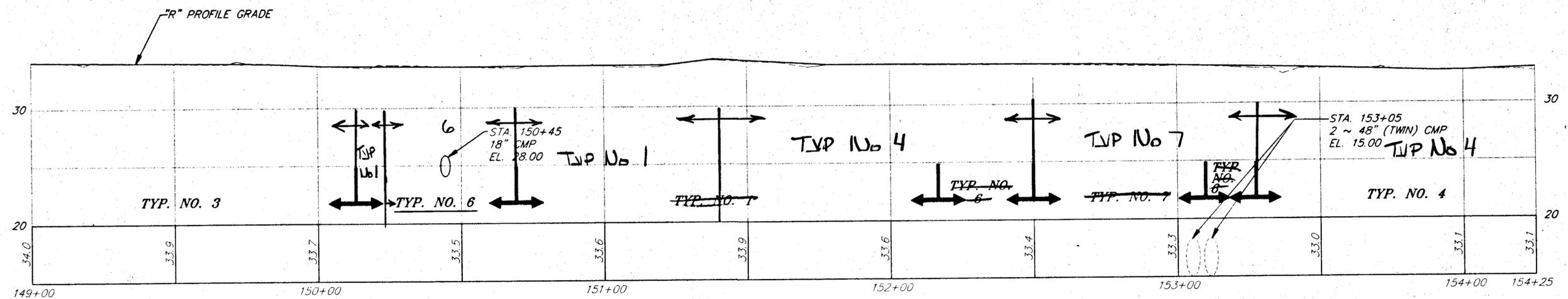
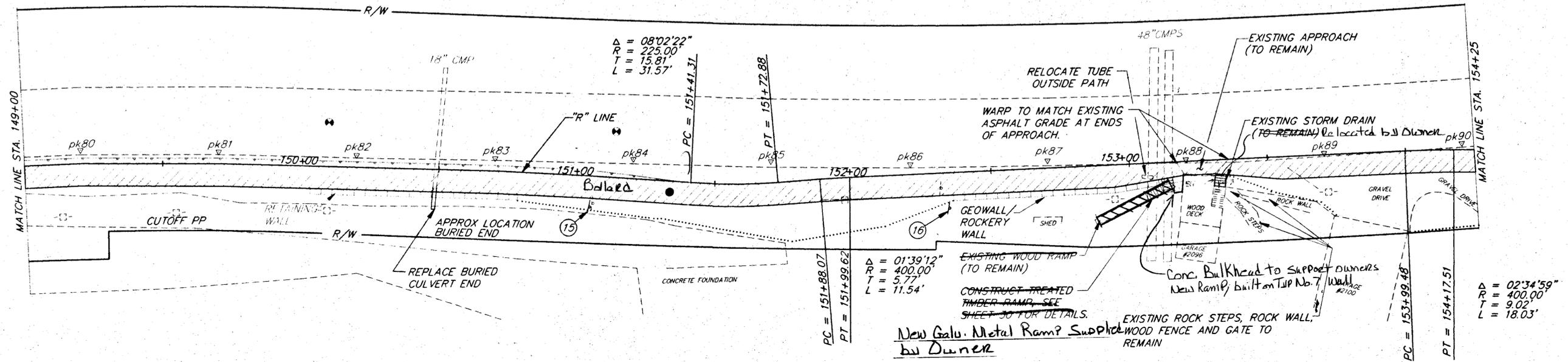
ALASKA
 DESIGNED BY: W. HOLBROOK
 DRAWN BY:

PROJECT NO. 71372
 DATE:



NOTE:

PAVE AREA BETWEEN RECREATION PATH AND EXISTING PAVEMENT STA. 152+25 TO 154+40. PROVIDE SAWCUT FOR JOINT APPEARANCE. SEE ADDITIONAL DRIVEWAY GRADING INFORMATION ON SHTS. 4 & 26. (LIMITS OF PAVING AND SAWCUT NOT SHOWN FOR CLARITY)



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71372\DR\ -P149 PLOT:PCP(20) OR PLOH.PCP(40)
 BY: DATE: DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

KETCHIKAN

SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372

"R" STA 149+00 TO "R" STA 154+00

ALASKA

DESIGNED BY: W. HOLBROOK
 DRAWN BY: C. ANDERSON

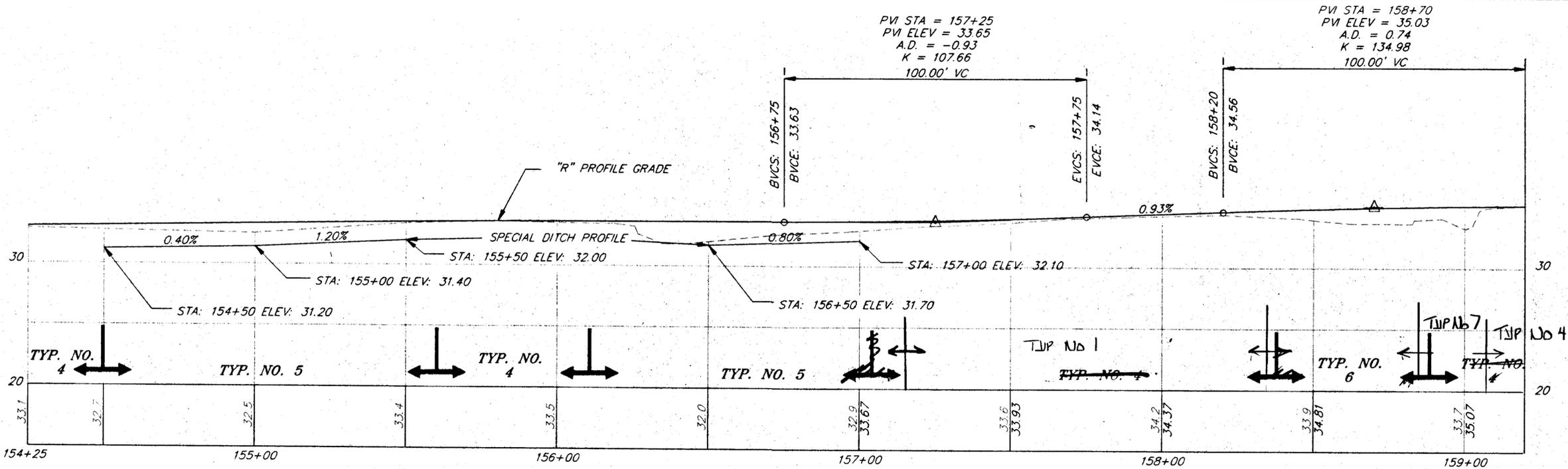
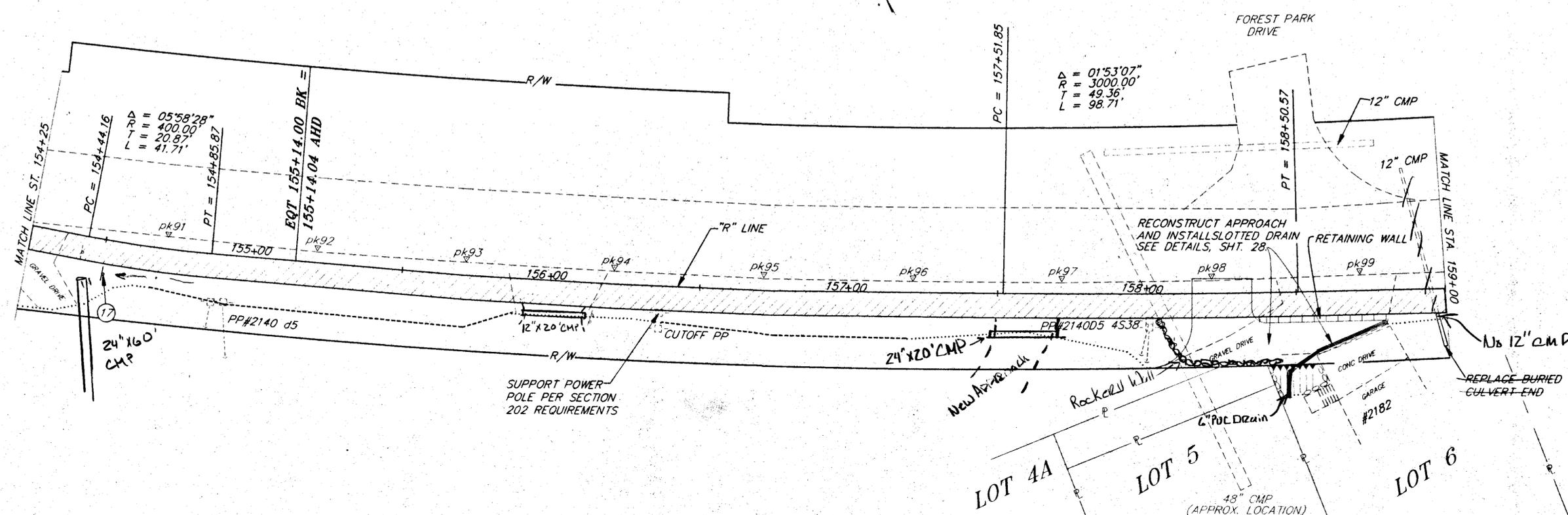
PROJECT NO. 71372
 DATE: AUGUST 1995

ENGINEER'S SEAL



NOTE:

PAVE AREA BETWEEN NEW RECREATION PATH AND EDGE OF EXISTING ASPHALT STA. 158+15 TO 159+60. PROVIDE SAWCUT FOR JOINT APPEARANCE. SEE ADDITIONAL DRIVEWAY INFORMATION ON SHEETS 4 AND 26. (LIMITS OF PAVING AND SAWCUT NOT SHOWN FOR CLARITY).



PATH: P:\K7N\71372\DR\ -P154 PLOT: PCP(20) OR PLOTH.PCP(40)
 BY: DATE: DESCRIPTION OF CHANGE:

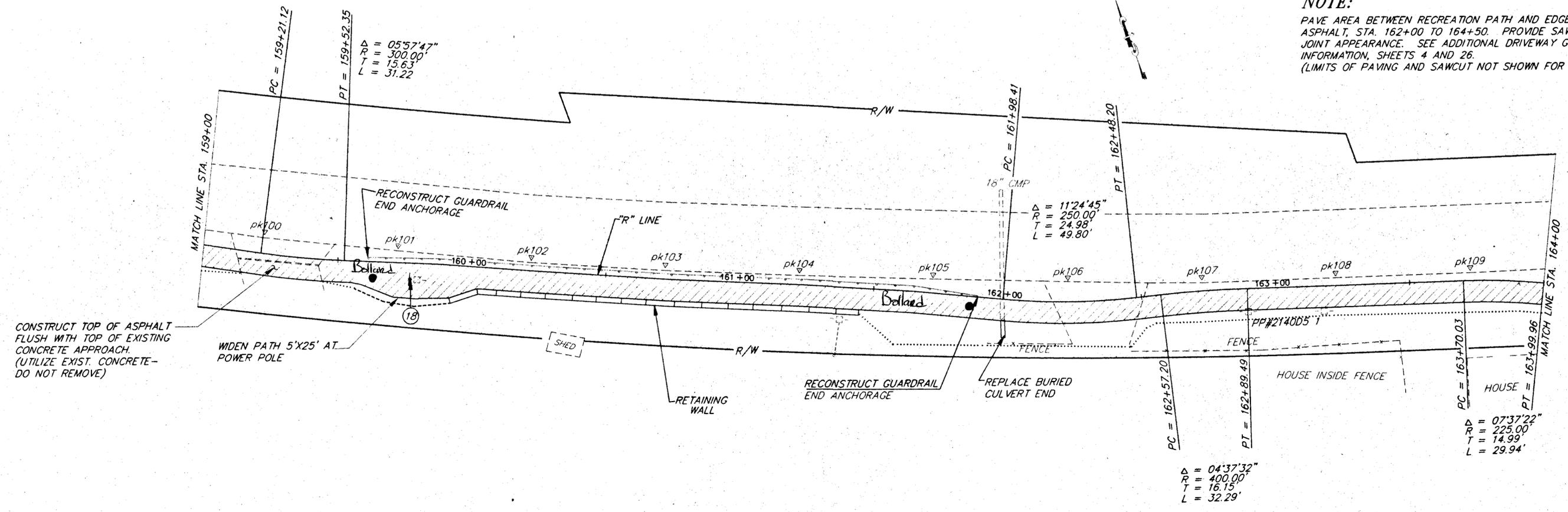
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION

KETCHIKAN SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372
 ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS
 DESIGNED BY: W. HOLBROOK
 DRAWN BY:
 PROJECT NO. 71372
 DATE:



NOTE:
PAVE AREA BETWEEN RECREATION PATH AND EDGE OF EXISTING ASPHALT, STA. 162+00 TO 164+50. PROVIDE SAWCUT FOR JOINT APPEARANCE. SEE ADDITIONAL DRIVEWAY GRADING INFORMATION, SHEETS 4 AND 26. (LIMITS OF PAVING AND SAWCUT NOT SHOWN FOR CLARITY.)



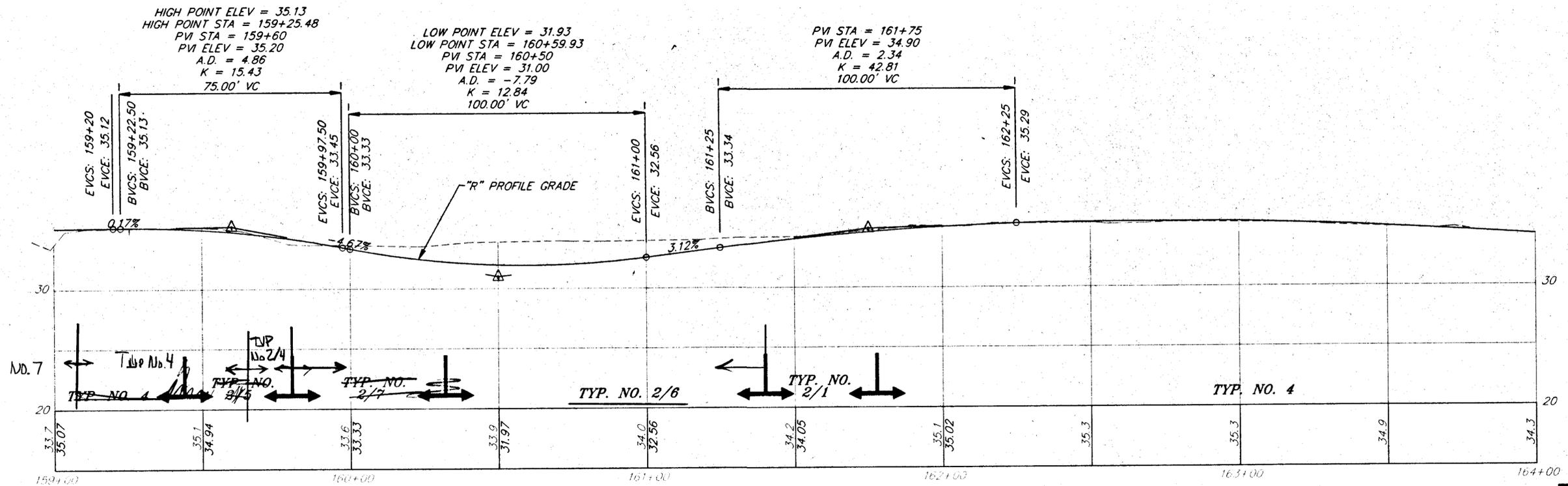
CONSTRUCT TOP OF ASPHALT FLUSH WITH TOP OF EXISTING CONCRETE APPROACH. (UTILIZE EXIST. CONCRETE-DO NOT REMOVE)

WIDEN PATH 5'X25' AT POWER POLE

HIGH POINT ELEV = 35.13
HIGH POINT STA = 159+25.48
PVI STA = 159+60
PVI ELEV = 35.20
A.D. = 4.86
K = 15.43
75.00' VC

LOW POINT ELEV = 31.93
LOW POINT STA = 160+59.93
PVI STA = 160+50
PVI ELEV = 31.00
A.D. = -7.79
K = 12.84
100.00' VC

PVI STA = 161+75
PVI ELEV = 34.90
A.D. = 2.34
K = 42.81
100.00' VC

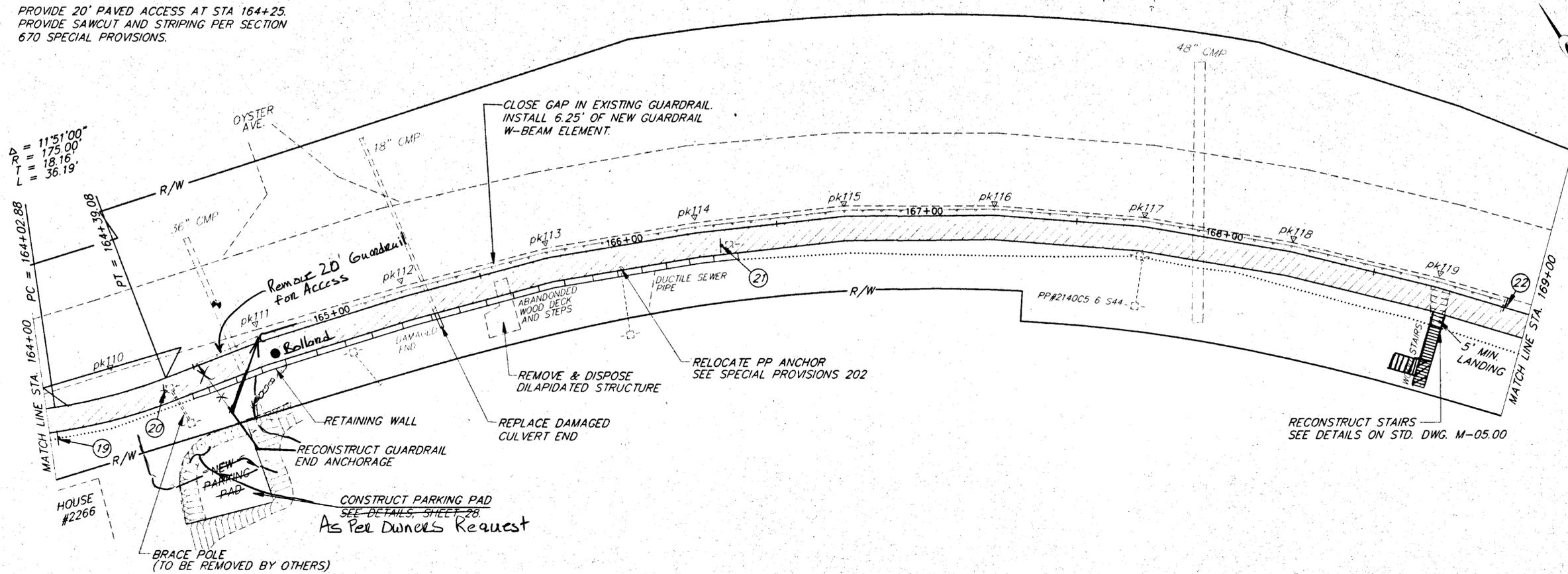


NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

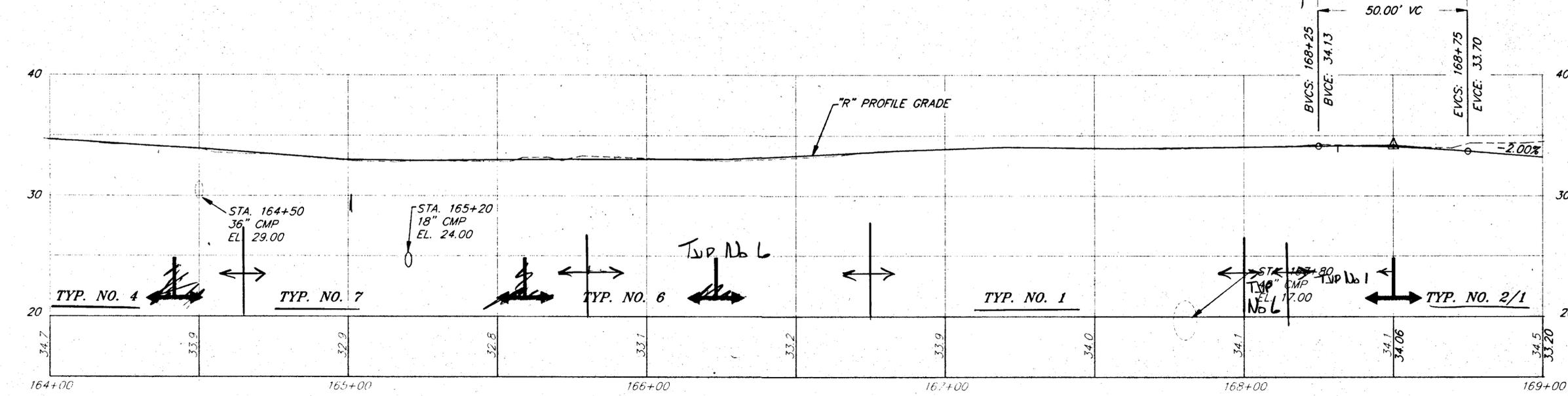


NOTE:

PROVIDE 20' PAVED ACCESS AT STA 164+25.
 PROVIDE SAWCUT AND STRIPING PER SECTION
 670 SPECIAL PROVISIONS.



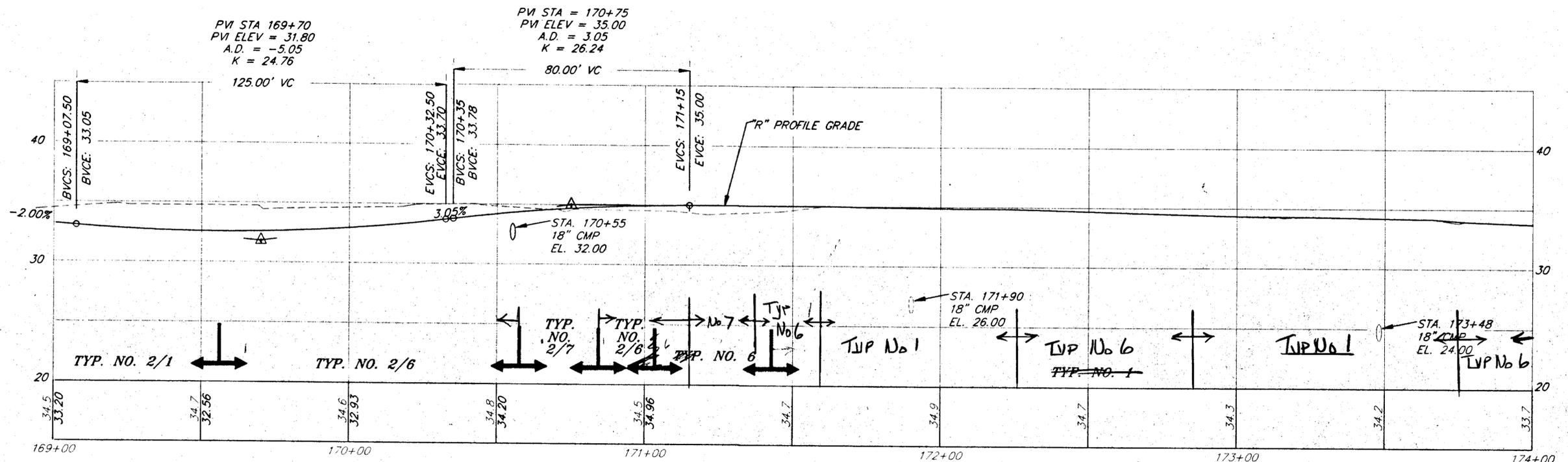
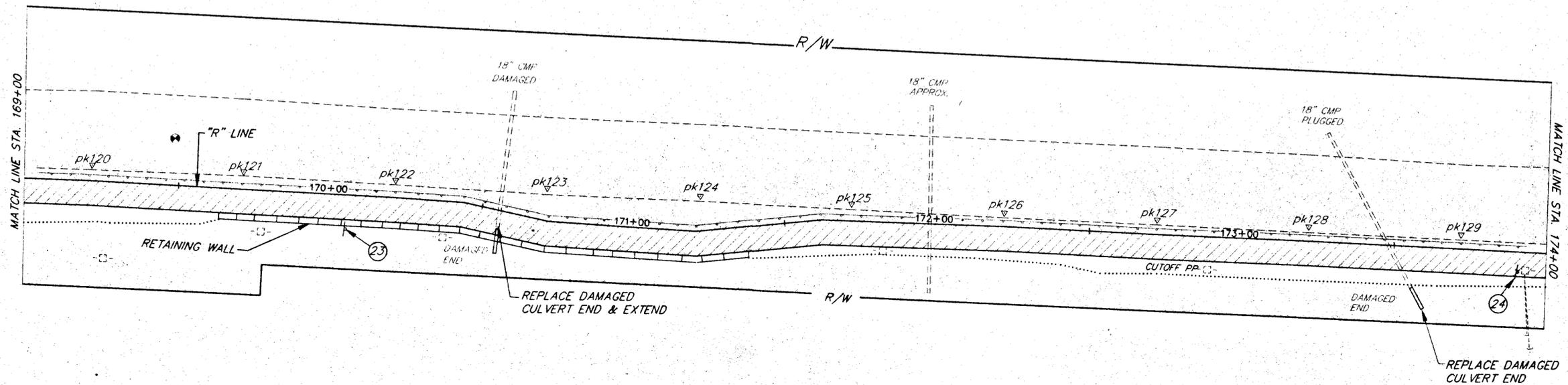
HIGH POINT ELEV = 34.14
 HIGH POINT STA = 168+31.43
 PVI STA = 168+50
 PVI ELEV = 34.20
 A.D. = 2.30
 K = 21.78



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71372\DR\164 PLOT.PCP(20) OR PLOT.PCP(40)		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		KETCHIKAN SOUTH TONGASS HIGHWAY COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH PROJECT NO. TE-0902 (18) 71372		ALASKA DESIGNED BY: W. HOLBROOK		PROJECT NO. 71372	
BY:	DATE:	DESCRIPTION OF CHANGE:		"R" STA 164+00 TO "R" STA 169+00		DRAWN BY:		DATE:	





PATH: P:\KTN\71372\DR\--P169 PLOT:PCP(20) OR PLOT:PCP(40)
 BY: DATE: DESCRIPTION OF CHANGE:

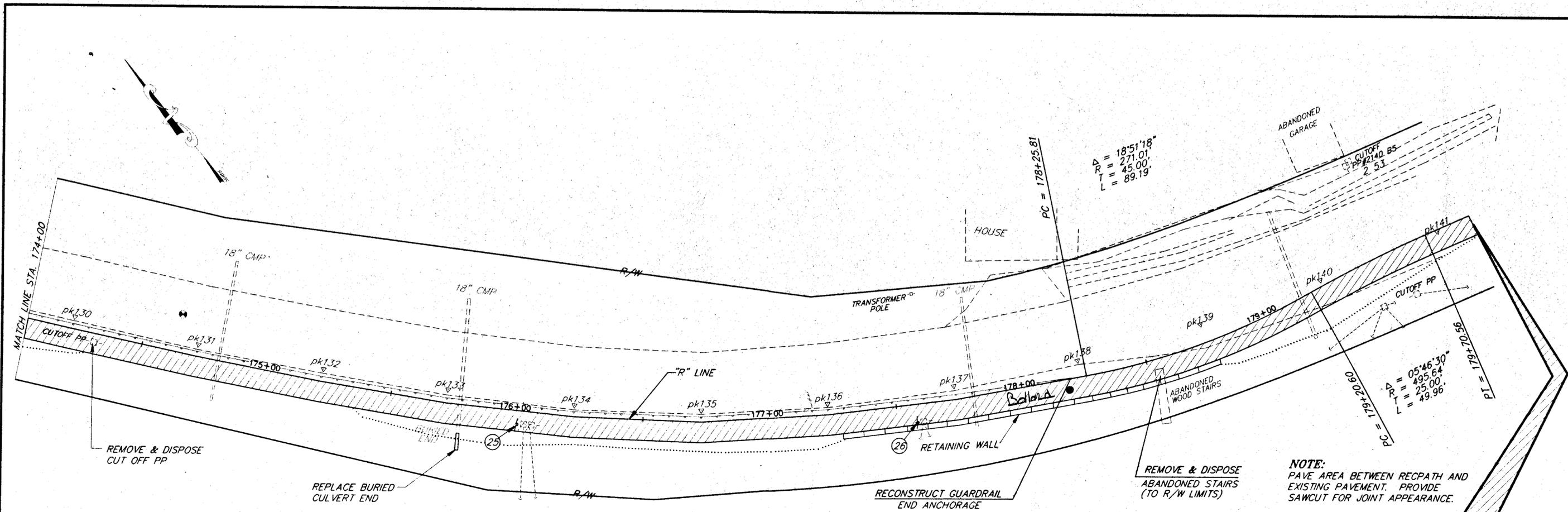
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION

KETCHIKAN
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372
 ALASKA

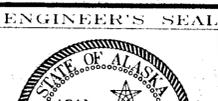
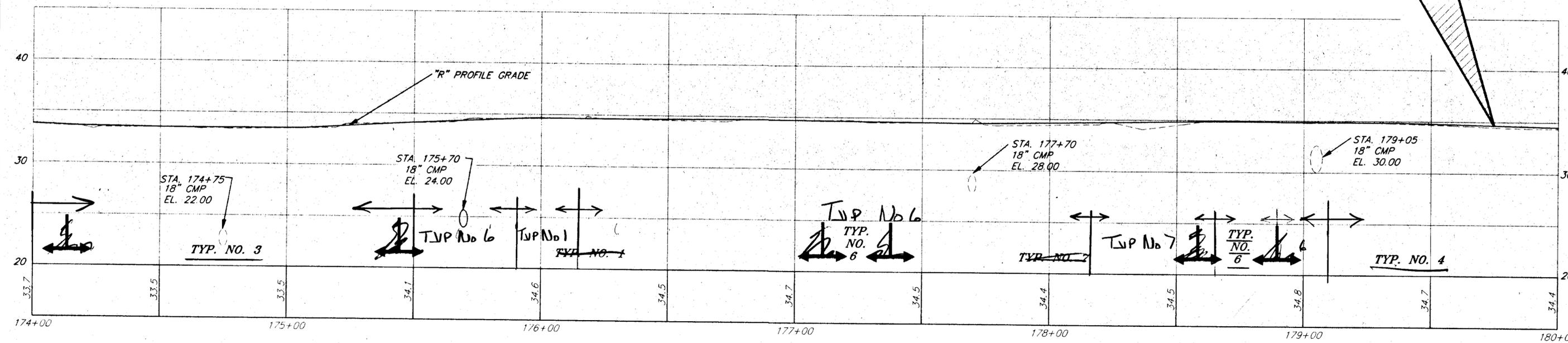
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

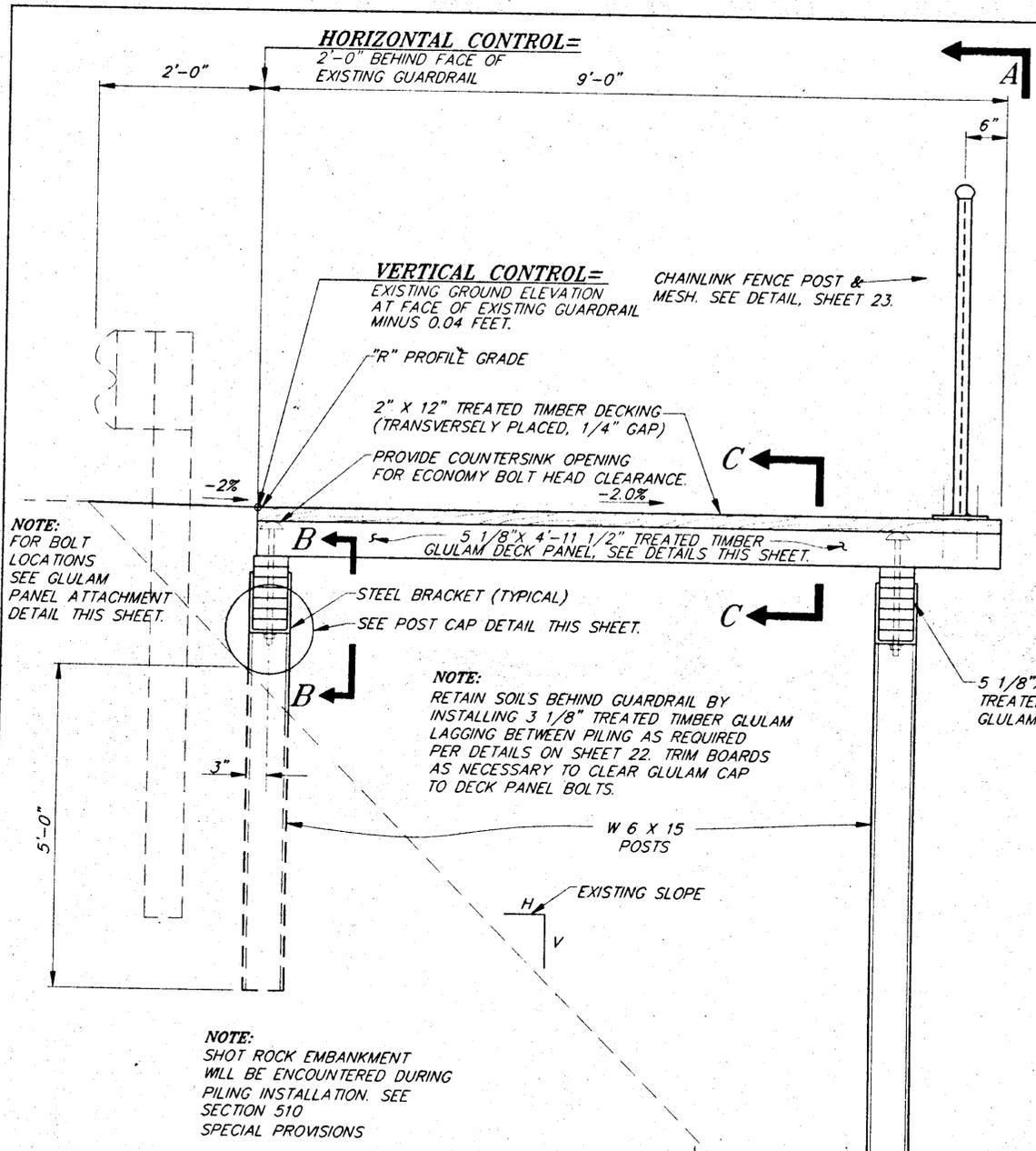
DESIGNED BY: W. HOLBROOK
 PROJECT NO. 71372
 DRAWN BY: DATE:



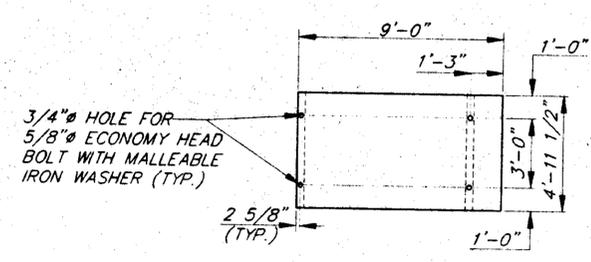


**END OF PROJECT
"R" STATION 179+75
END GRADING AND PAVEMENT**

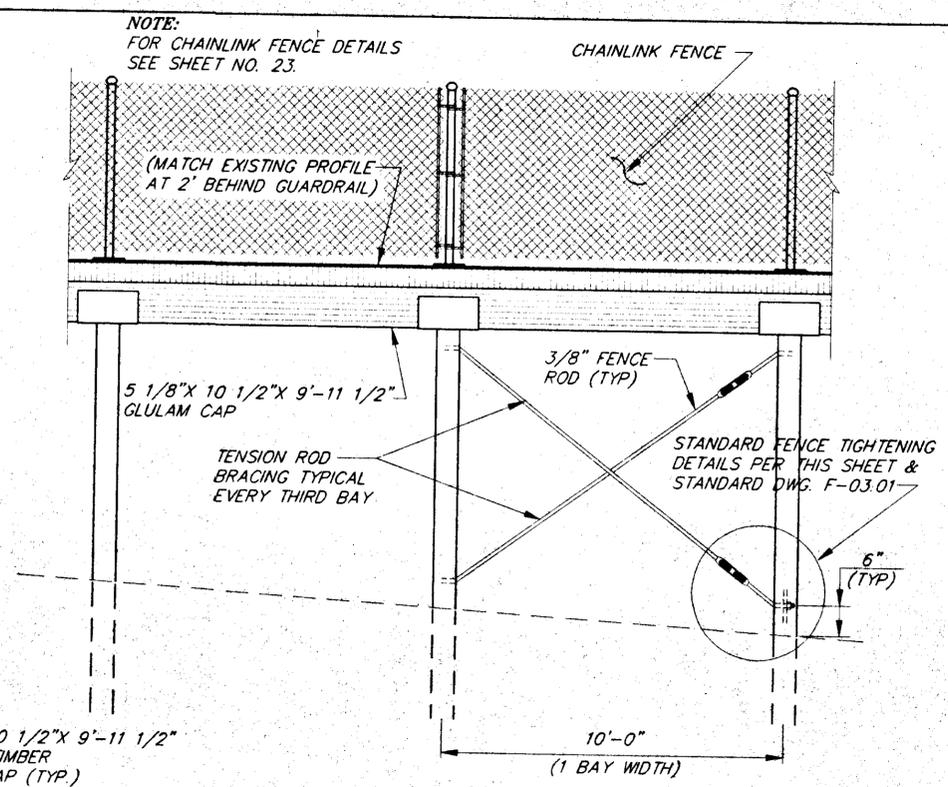




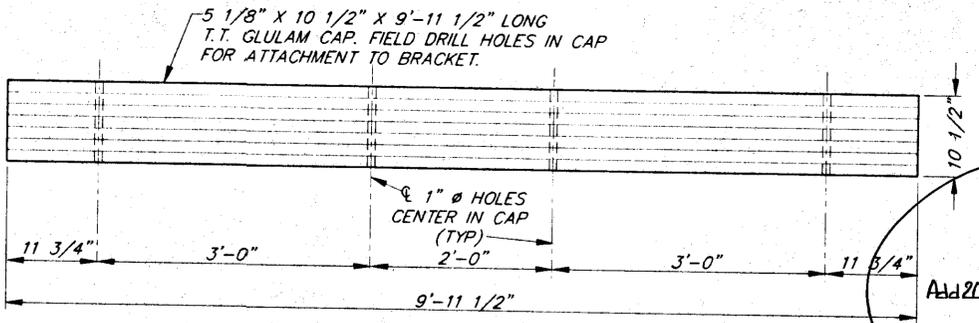
END VIEW



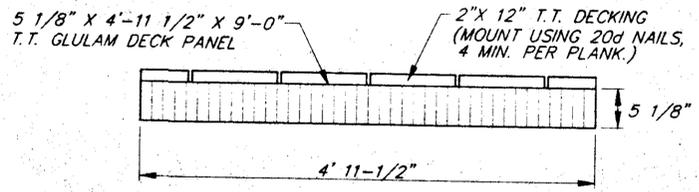
**PLAN
GLULAM PANEL TO BEAM ATTACHMENT DETAIL**



ELEVATION A-A



GLULAM CAP



**SECTION VIEW C-C
GLULAM DECK PANEL**

POST DEPTH SUMMARY	
EXISTING SLOPE (MIN)	MINIMUM DEPTH (FT)
1.5:1 OR FLATTER	5'
1.25:1 OR FLATTER	7'
1:1 OR FLATTER	9'
75:1 OR FLATTER	11'

NOTE: DRILL 1/2" HOLE CENTERED IN W6 X 15 WEB FOR 3/8" RODS AT LOCATIONS SHOWN.

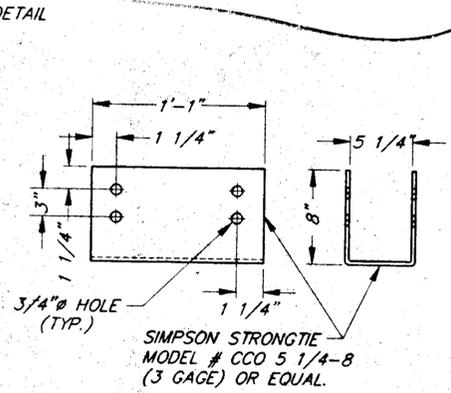
**TYPICAL DETAIL
TENSION ROD TIGHTENERS**

GENERAL NOTES:

- APPROXIMATE PANEL WEIGHT = 825#; GLULAM CAP WT. = 160#; DESIGN VEHICLE LOAD = 3 TON.
- ALL TREATED TIMBER GLULAMS SHALL BE COASTAL DOUGLAS FIR, COMBINATION L-3 (PANELS) OR 18F (CAP) OR BETTER RATED FOR WET USE CONDITION. PRESERVATIVE TREATMENT SHALL BE PENTACHLOROPHENOL PRESERVATIVE, 0.5 pct RETENTION BY ASSAY, SAMPLING DEPTH 0 TO 0.6 INCHES; IN ACCORDANCE WITH A.W.P.A. C2 STANDARDS.
- ALL STRUCTURAL STEEL SHALL BE A-36 OR BETTER. ALL HARDWARE A-307 OR BETTER. ALL STRUCTURAL STEEL AND HARDWARE SHALL BE HOT DIP GALVANIZED MEETING REQUIREMENTS A-153.
- DAMAGED POSTS (BENT) SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- TREATED TIMBER PLANKS SHALL BE WESTERN HEMLOCK-FIR (MIN.) S4S DIMENSIONAL LUMBER. TREATMENT SHALL BE A.C.Z.A. OR EQUIVALENT, 0.4PCT RETENTION BY ASSAY, PENETRATION = 0.4 INCHES IN ACCORDANCE WITH A.W.P.A. C2 STANDARD SPECIFICATIONS.
- CONTRACTOR IS PERMITTED TO USE 20' POST SPACING. IF HE ELECTS TO USE THIS SPACING, 5 1/8" X 1'-3" X 19'-11 1/2" GLULAM CAPS SHALL BE SUBSTITUTED FOR THOSE SHOWN. ALL OTHER DETAILS THE SAME EXCEPT TENSION RODS SHALL BE USED AT EVERY OTHER BAY. IF GLULAM LAGGING IS REQUIRED, AN ADDITIONAL POST AT 10'-0" SPACING AS SHOWN SHALL BE REQUIRED FOR POSTS CLOSEST TO HIGHWAY.

TREATED TIMBER SUMMARY							
STATION TO STATION	LENGTH	DECK PANELS		CAPS		BOARDS	
		NO.	1000 BOARD FEET (MBM)	NO.	1000 BOARD FEET (MBM)	NO.	
112+10 TO 114+50	240	48	11.07	48	2.26	240	
122+25 TO 122+45	20	4	0.92	4	0.19	20	
134+35 TO 134+55	20	4	0.92	4	0.19	20	
139+15 TO 139+45	30	6	1.38	6	0.28	30	
146+70 TO 150+10	340	68	15.68	68	3.20	340	
174+15 TO 175+45	130	26	6.00	26	1.22	130	
TOTAL =		780 LF	156	35.97	156	7.34	780 - 15.20

STRUCTURAL STEEL (BRACKET, & POST) SUMMARY					
STATION TO STATION	BRACKET NO.	POST		NO. OF PILES	TOTAL LENGTH
		MAX. LENGTH UPPER	MAX. LENGTH LOWER		
112+10 TO 114+50	48	6'	12'	50	450'
122+25 TO 122+45	4	6'	8'	6	42'
134+35 TO 134+55	4	6'	9'	6	45'
139+15 TO 139+45	6	6'	10'	8	60'
146+70 TO 150+10	68	6'	18'	70	840'
174+15 TO 175+45	26	6'	12'	28	252'
TOTAL =		156			1,690'



BRACKET DETAIL

**POST CAP DETAIL
VIEW B-B**

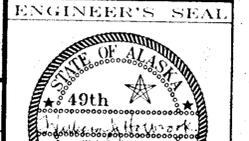
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71372\DR\--PANEL	PLOT: PCP(12) OR PLOTH: PCP(24)
BY:	DATE:
DESCRIPTION OF CHANGE:	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902(18) 71372
ALASKA

DESIGNED BY:	PROJECT NO.
W. HOLBROOK	71372
DRAWN BY:	DATE:

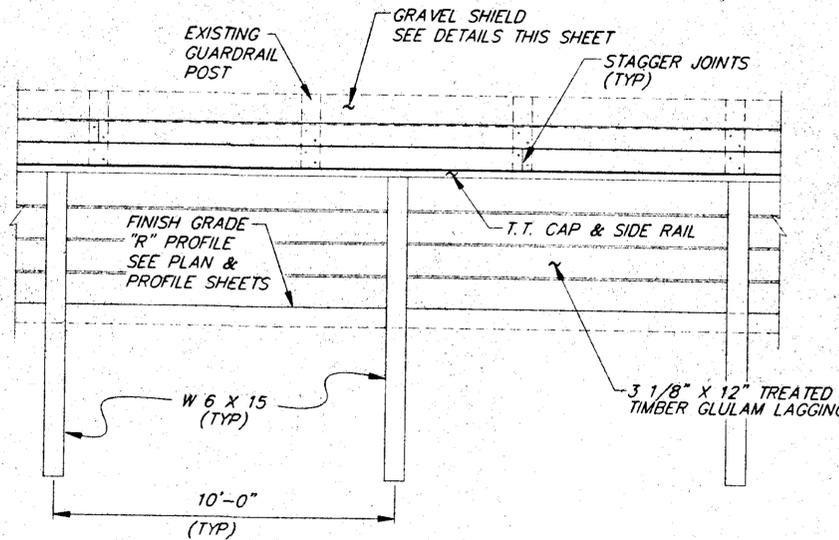
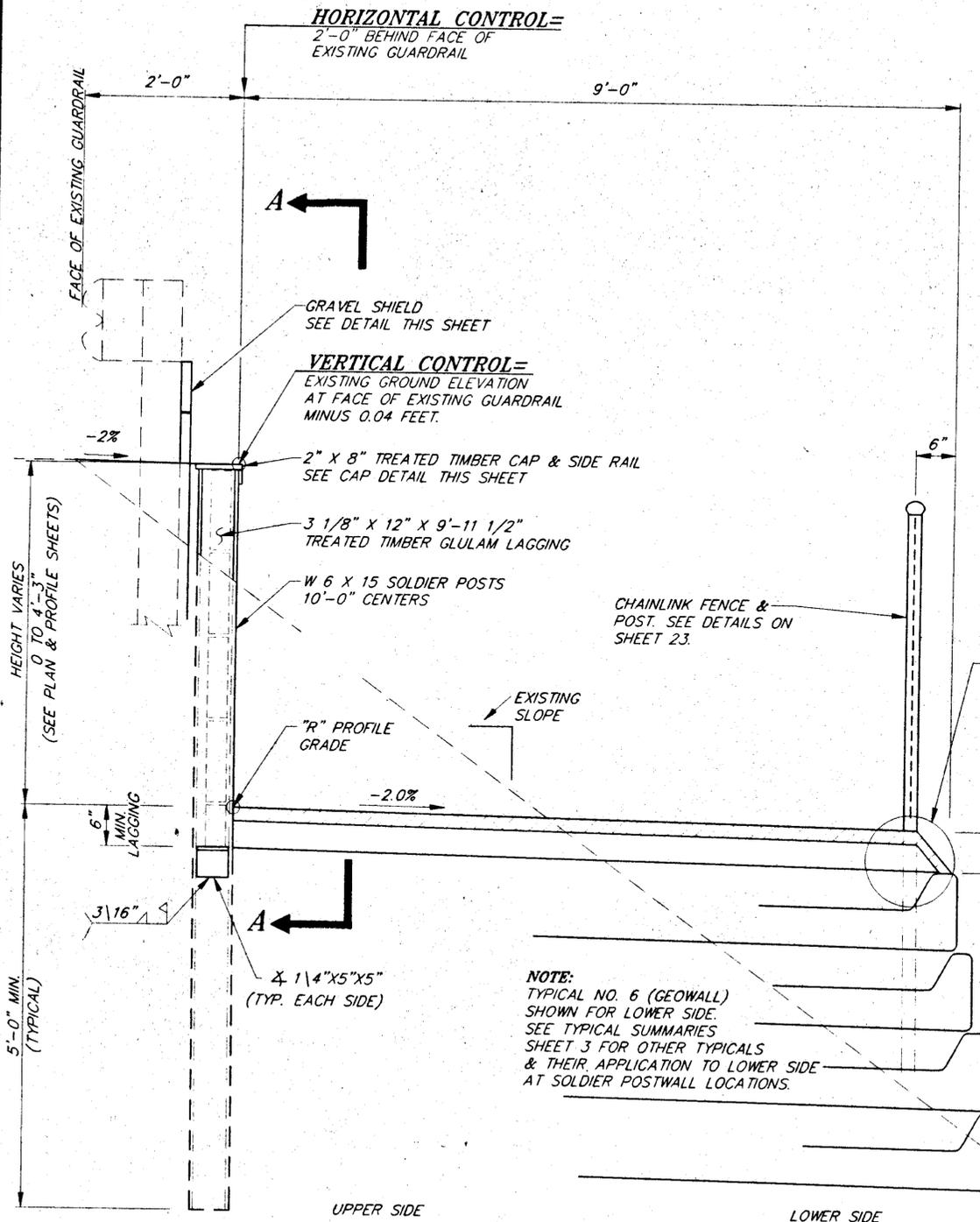


GENERAL NOTES:

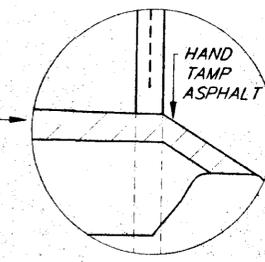
1. ALL POSTS, CAPS AND ASSOCIATED HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A-153.
2. WELD DAMAGED GALVANIZE COATING SHALL BE FIELD REPAIRED BY HOT STICK ZINC REPAIR METHOD TO THE SATISFACTION OF THE ENGINEER (PER SECTION 509-3.04).
3. POSTS SHALL BE DRIVEN OR PLACED IN DRILLED HOLES AS REQ'D. TO THE DEPTHS SHOWN. SEE SPECIAL PROVISION SECTION 509. TREATED TIMBER GLULAM LAGGING AND CAPS SHALL BE DOUGLAS FIR OR LARCH COMBINATION L-3 AND 18F, RESPECTIVELY.
4. TREATED TIMBER PLANKS MAY BE ROUGH SAWN HEMLOCK-FIR OR LARCH. TREATMENT FOR ALL TIMBER SHALL BE ACZA PRESERVATIVE OR EQUIVALENT, 0.4 PCF RETENTION BY ASSAY, PENETRATION = 0.4 INCHES IN ACCORDANCE WITH A.W.P.A. C2 STANDARD SPECIFICATIONS.

SOLDIER POST WALL SUMMARY

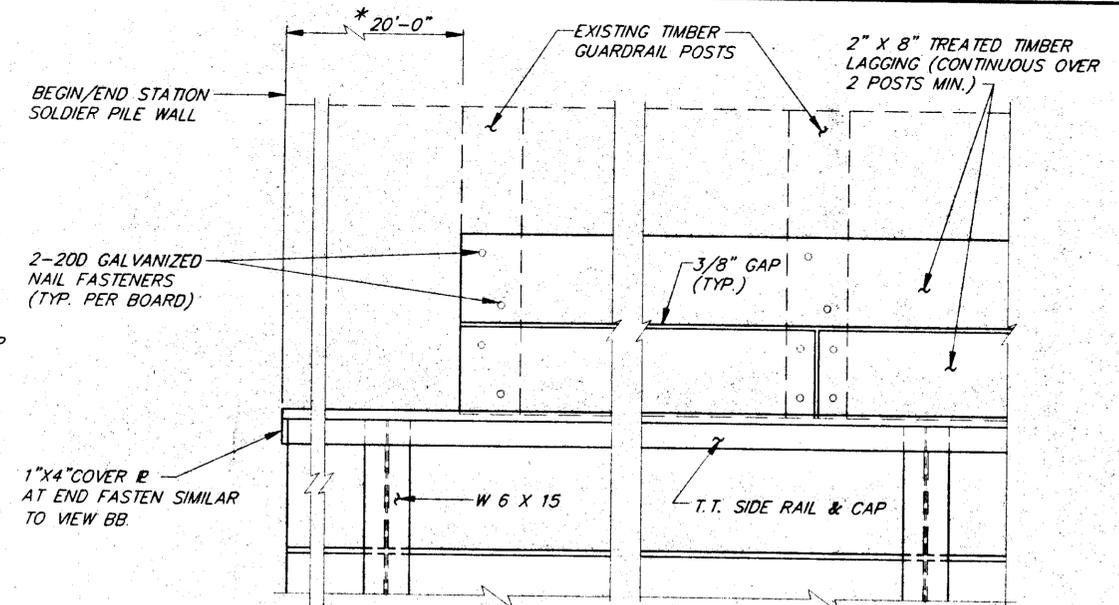
STATION TO STATION	POST		LAGGING		
	WALL LENGTH (L.F.)	NO. OF POST LOCATIONS	AVERAGE WALL HEIGHT (FEET)	AVERAGE WIDTH X LENGTH (S. F.)	THOUSAND BOARD FEET (MBM)
65					
115+25 TO 118+25	300	31	2'	750	2.3
118+75 TO 122+85	410	42	2.5'	1230	3.8
125+05 TO 128+00	300	39	3'	1330	4.2
140+05 TO 144+75	470	48	3'	1645	5.1
159+25 TO 161+75	200	24	1.5'	460	1.4
168+50 TO 171+00	250	26	1.5'	500	1.6
TOTALS = 2,040 L.F. = 210			TOTAL = 18.4 MBM		
ASSUMED POST LENGTH = 10 L.F.			BOARD FEET		
TOTAL LF POST = 210 X 10 = 2100 L.F.			LAGGING		



ELEVATION A-A

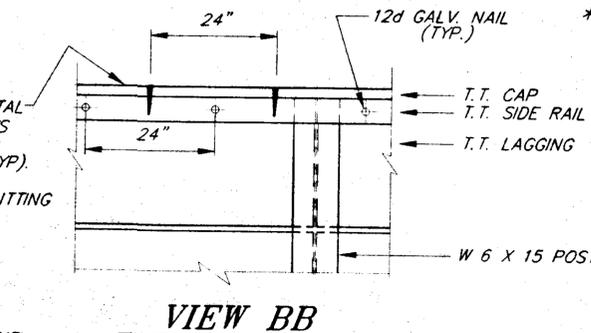
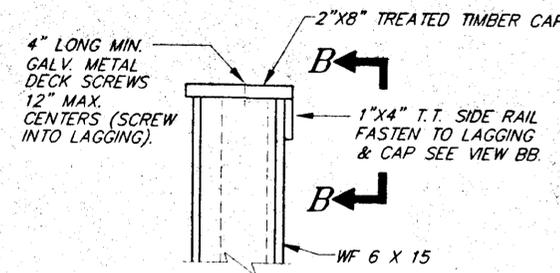


ASPHALT PAVEMENT CORNER DETAIL



GRAVEL SHIELD DETAILS

CAP DETAILS



VIEW BB

END VIEW

NOTE:
TYPICAL NO. 6 (GEOWALL) SHOWN FOR LOWER SIDE. SEE TYPICAL SUMMARIES SHEET 3 FOR OTHER TYPICALS & THEIR APPLICATION TO LOWER SIDE AT SOLDIER POSTWALL LOCATIONS.

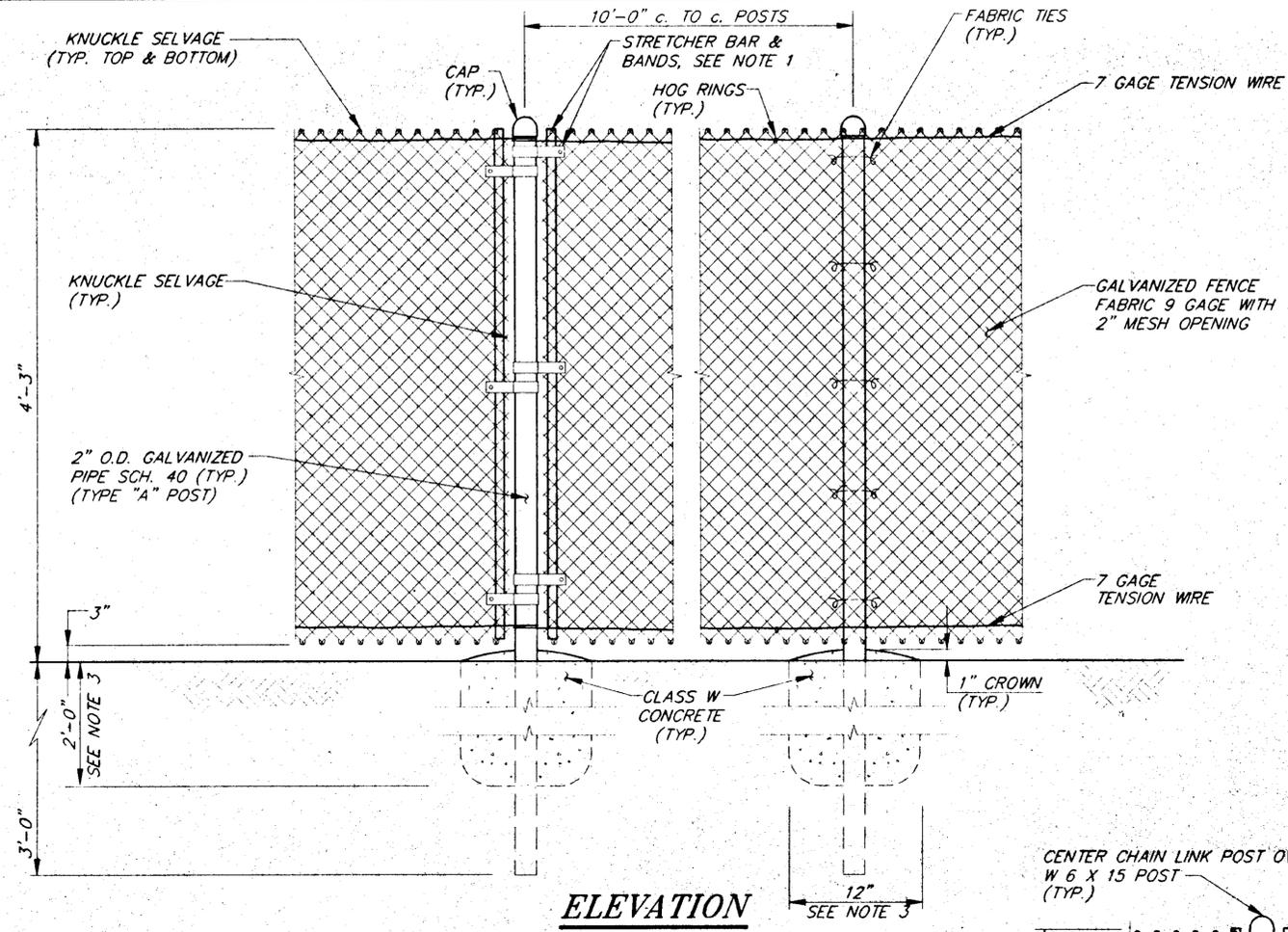
NOTE:
PROVIDE 1/4" X 4" X 6" TREATED TIMBER SHIMS BACK SIDE SIDE RAIL TO LAGGING CONNECTION AT 12d NAIL LOCATIONS.

NOTE:
SHOT ROCK EMBANKMENT WILL BE ENCOUNTERED DURING POST INSTALLATION OPERATIONS. SEE SPECIAL PROVISIONS SECTION 509 FOR ADDITIONAL INFORMATION.

GRAVEL SHIELD FENCE SUMMARY

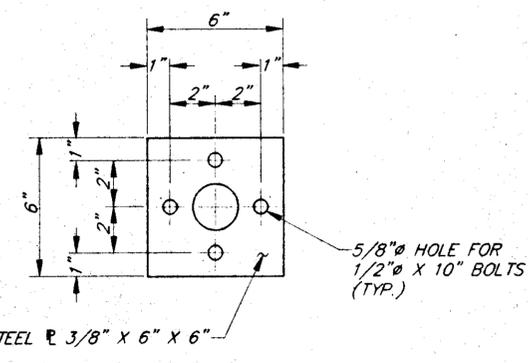
STATION TO STATION	FENCE		
	LENGTH	HEIGHT	THOUSAND BOARD FEET (MBM)
*115+75 TO 118+05	230'	1'-3"	0.58
118+95 TO 122+65	370'	1'-3"	0.93
*125+50 TO 128+60	310'	1'-3"	0.78
140+25 TO 144+55	430'	1'-3"	1.08
159+65 TO 161+55	190'	1'-3"	0.48
168+70 TO 170+80	210'	1'-3"	0.53
TOTAL S.F. FENCE = 4.38			



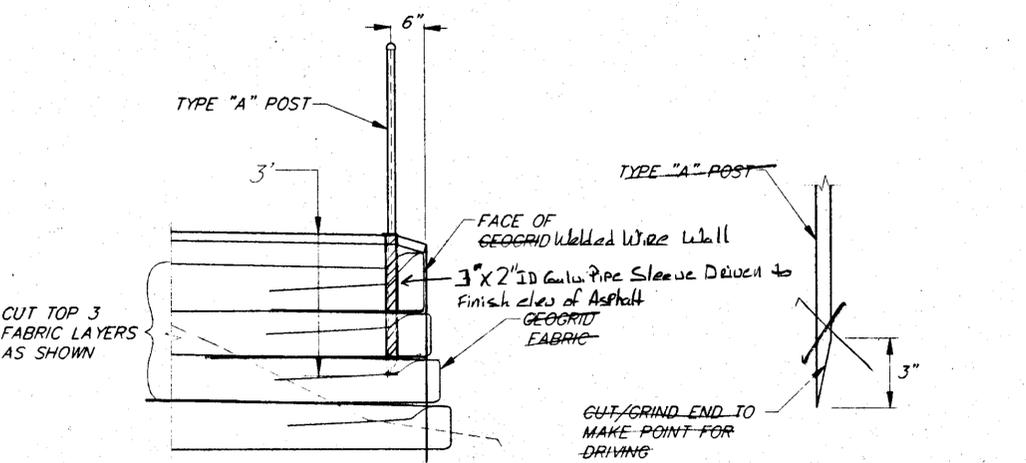


ELEVATION

**RAILPOST ~ RAILING DETAILS
(TYPE "A" POST LOCATIONS)**



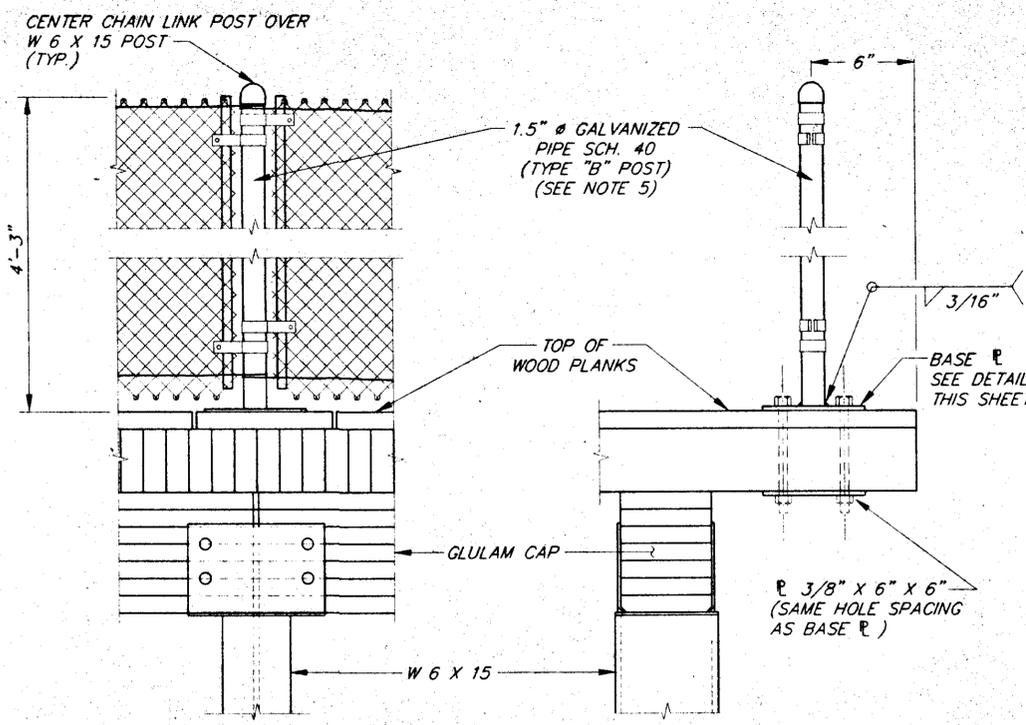
BASE PLATE DETAIL



SECTION

SHARPENED END DETAIL

**POST EMBEDMENT DETAIL
(GEOWALL AREAS ONLY)**



ELEVATION

END VIEW

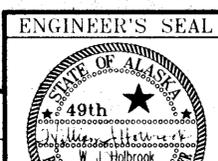
**RAILPOST ~ RAILING DETAILS
(TYPE "B" POST LOCATIONS)**

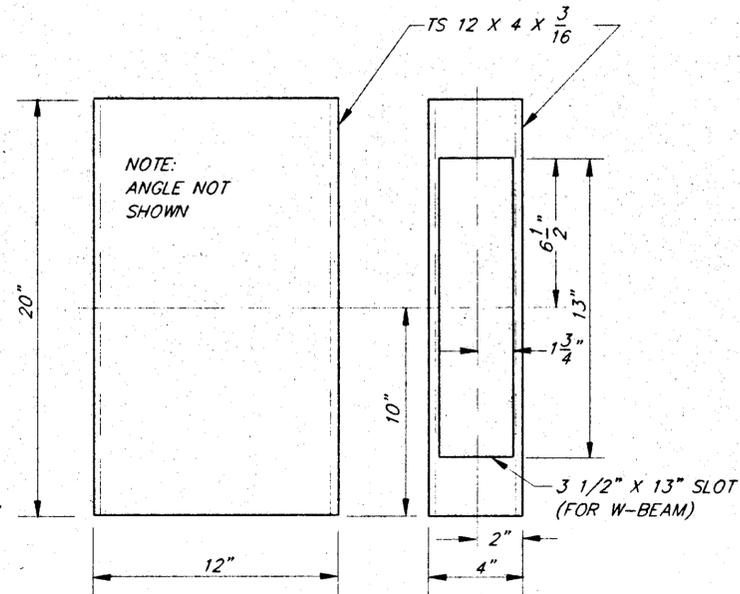
CHAINLINK FENCE NOTES

1. CONTRACTOR SHALL BE REFERRED TO STANDARD DRAWING F-01.01 FOR TYPICAL DETAILS EXCEPT AS NOTED THIS SHEET.
2. CHAINLINK FENCE, PIPE AND ASSOCIATED HARDWARE SHALL BE GALVANIZED PER ASTM A-153.
3. FOUNDATION DEPTHS AND WIDTHS SHOWN IN TABLE IN STANDARD DRAWING F-01.01 MAY BE SUBSTITUTED FOR THOSE SHOWN WHERE DEPTHS GIVEN IN TABLE CAN BE OBTAINED.
4. FABRIC SHALL BE PLACED ON HIGHWAY SIDE OF POST.
5. TYPE "B" POSTS REQUIRED AT GLULAM PANEL STRUCTURE. ALL POST DIMENSIONS, CHAINLINK HARDWARE AND SPACINGS SAME AS TYPE "A" POST LOCATIONS EXCEPT AS NOTED.
6. MINIMUM POST SPACING OF 7'-6" SHALL BE MAINTAINED AT ALL LOCATIONS, 10'-0" MAXIMUM.
7. CHAINLINK POST LOCATIONS (TYPE A POSTS ONLY) MAY BE ADJUSTED OUTWARD WHERE ROOM IS AVAILABLE TO DO SO, SUBJECT TO ENGINEER APPROVAL. SEE TYPICAL SECTIONS SHEET 2 FOR ADDITIONAL DETAILS.
8. TERMINAL POSTS SHALL BE OFFSET 2 FEET OUT TO PROVIDE A FLARED END. PULL POSTS PER STANDARD DRAWING F-01.01 SHALL BE 2 INCH NOMINAL DIAMETER AND LOCATED AT FIRST POST PRIOR TO TERMINAL POSTS.

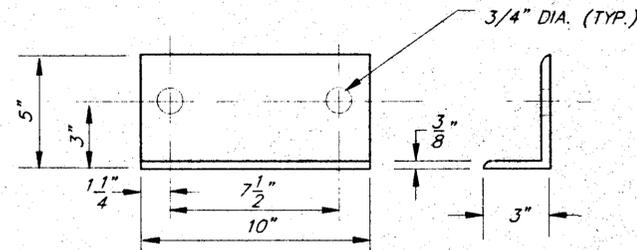
CHAINLINK FENCE SUMMARY TABLE

ChainLink Fence			
Station	Station	Length(Lms)	Remarks
112+05	114+73	268.2	
115+90	118+26	236.6	
120+15	123+45	330.0	
125+50	126+40	90.2	
127+60	129+00	140.1	
131+00	131+50	52.2	attach to carport
131+65	132+05	43.1	
132+50	133+40	89.3	
133+45	135+42	197.0	
136+15	137+45	129.6	
138 ~	141+66	365.8	
142+30	151+10	915.1	+ widening area for benches
152+40	153+20	92.7	+ fence @ bulkhead for ramp
158+30	159+10	79.2	
159+90	161+67	176.9	
164+92	168+72	378.7	
168+77	173+12	434.7	
173+40	178+90	551.1	
		4,570.5LF	Total

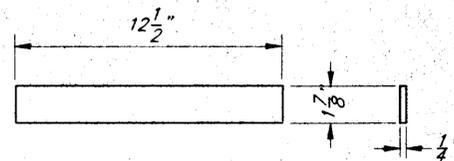




STRUCTURAL TUBE DETAIL

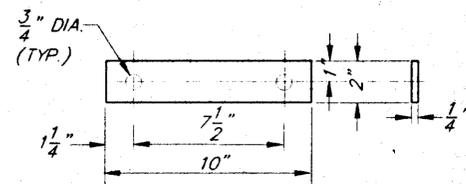


ANGLE DETAIL

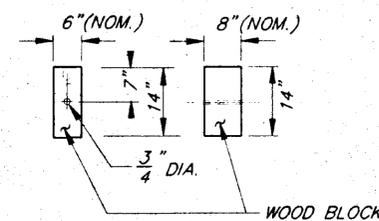


STEEL PLATE DETAIL

(4 REQUIRED)

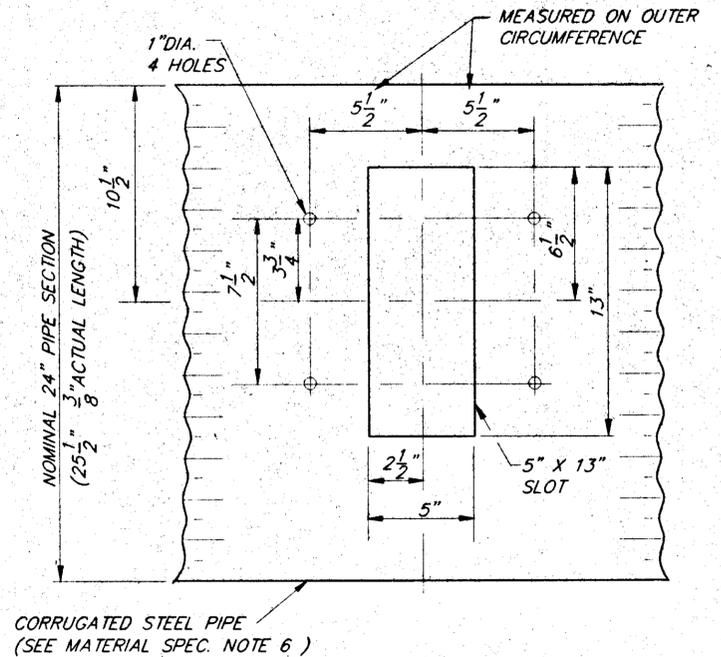


STEEL PLATE WASHER DETAIL



WOOD BLOCK B DETAIL

(4 REQ'D.)

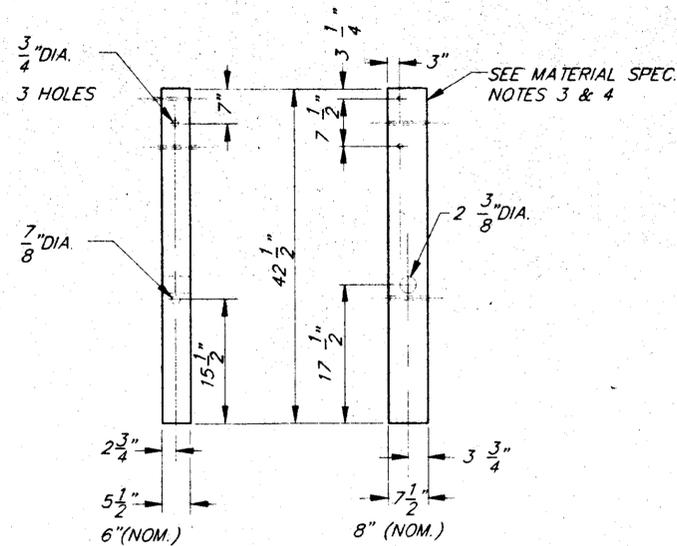


CORRUGATED STEEL PIPE
(SEE MATERIAL SPEC. NOTE 6)

CORRUGATED STEEL PIPE DETAIL

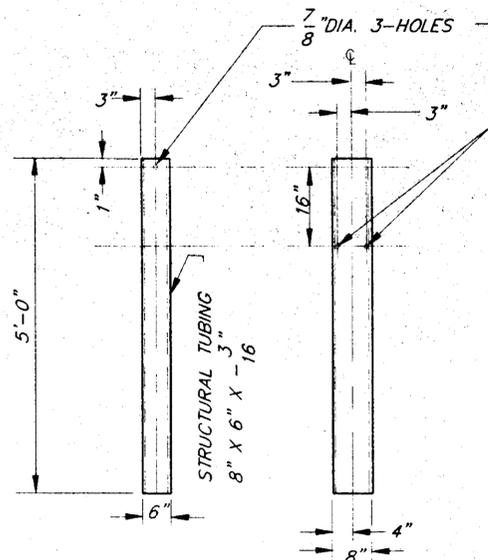
MATERIAL SPECIFICATIONS NOTES:

1. ALL BOLTS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A307 AND NUTS TO THE REQUIREMENTS OF A.S.T.M. A563, GRADE A OR BETTER.
2. ALL BOLTS AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A153.
3. WOOD POSTS SHALL BE MADE OF S4S TIMBER WITH A STRESS GRADE OF 1200 PSI OR BETTER FOR WET USE CONDITION, IN ACCORDANCE WITH WEST COAST LUMBER INSPECTION BUREAU (W.C.L.I.B.) GRADING RULES.
4. ALL WOOD POSTS AND BLOCKS SHALL RECEIVE PRESERVATIVE TREATMENT IN ACCORDANCE WITH A.A.S.H.T.O. DESIGNATION M-133 AND AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (A.I.T.C.) TREATMENT STANDARD 109-69. RETENTION SHALL BE MEASURED BY ASSAY AND SHALL BE DETERMINED FOR GROUND CONTACT CONDITION FOR TIMBER POST AND PRESERVATIVE MATERIAL SELECTED.
5. ALL ANGLES, CHANNELS AND PLATES SHALL CONFORM TO REQUIREMENTS OF A.S.H.T.O. M-138 AND A.S.T.M. A36 AND STRUCTURAL TUBING TO A.S.T.M. A500 GRADE B OR A501. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.N.S.I./A.W.S. D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH A153. NO PUNCHING, DRILLING OR WELDING SHALL BE PERMITTED AFTER GALVANIZING WITHOUT APPROVAL OF ENGINEER.
6. CORRUGATED STEEL PIPE SHALL BE HOT DIPPED GALVANIZED 16 GAGE 24" DIA. WITH ANNULAR CORRUGATIONS AND SHALL MEET REQUIREMENTS OF A.A.S.H.T.O. M36 AND M218.



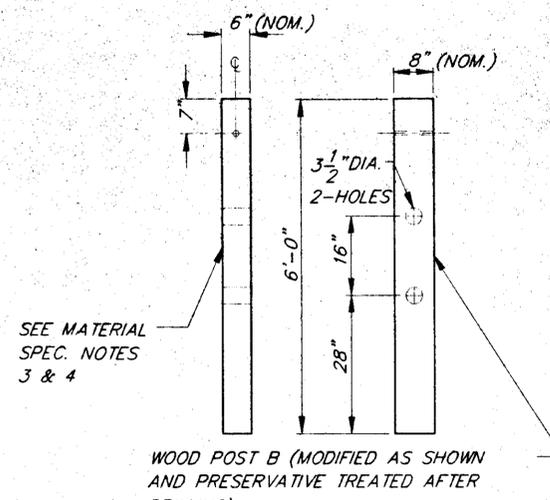
WOOD BREAKAWAY POST A DETAIL

(2 REQ'D.)



STEEL TUBE DETAIL POST A

(2 REQ'D.)

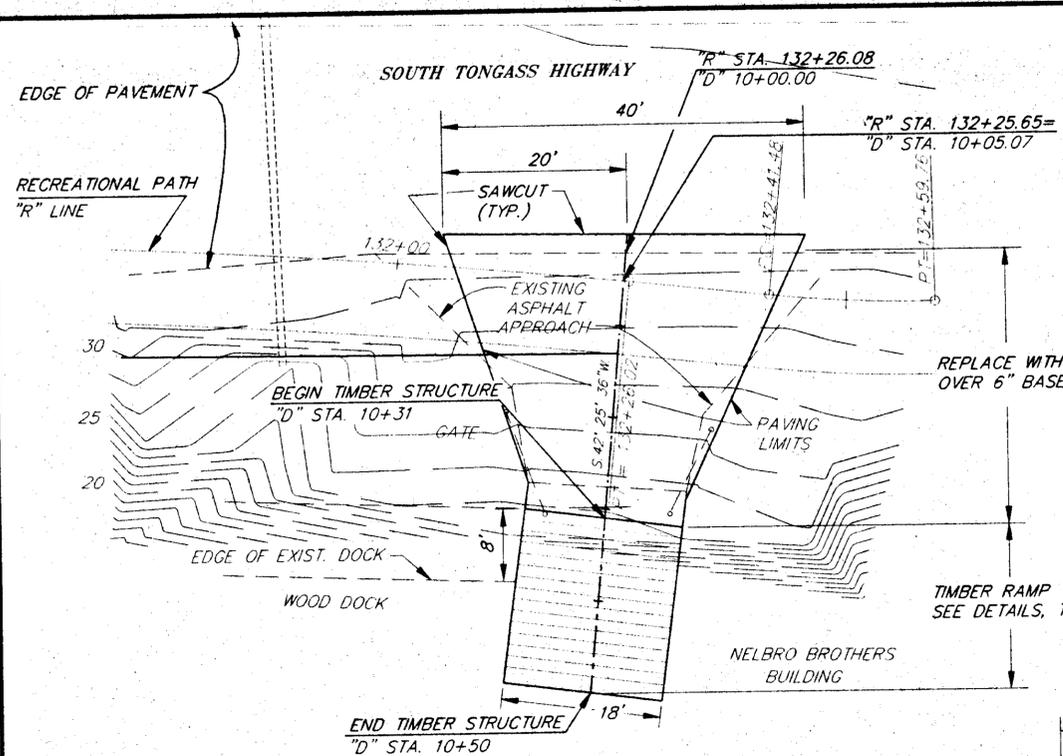


WOOD BREAKAWAY DETAIL POST B

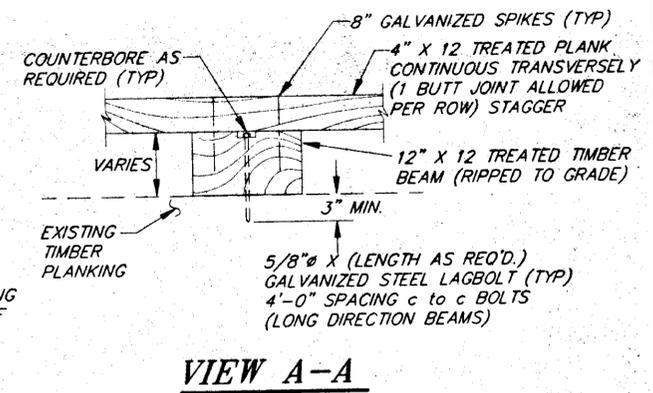
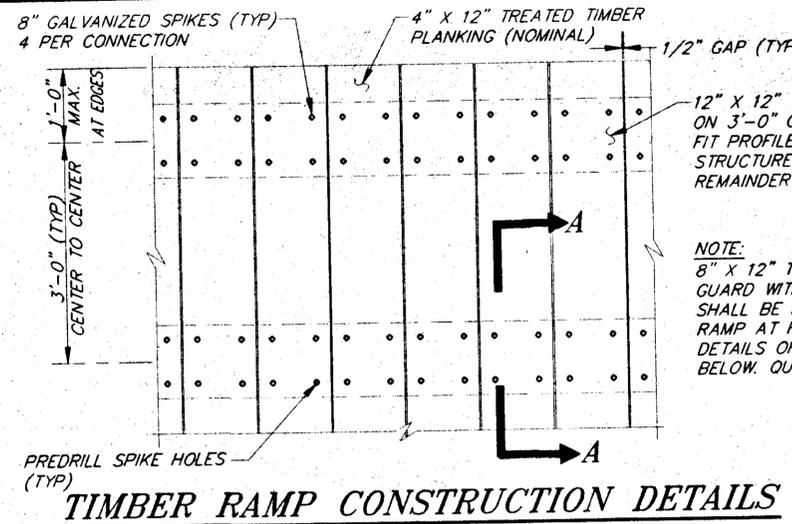
(3 REQ'D.)

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

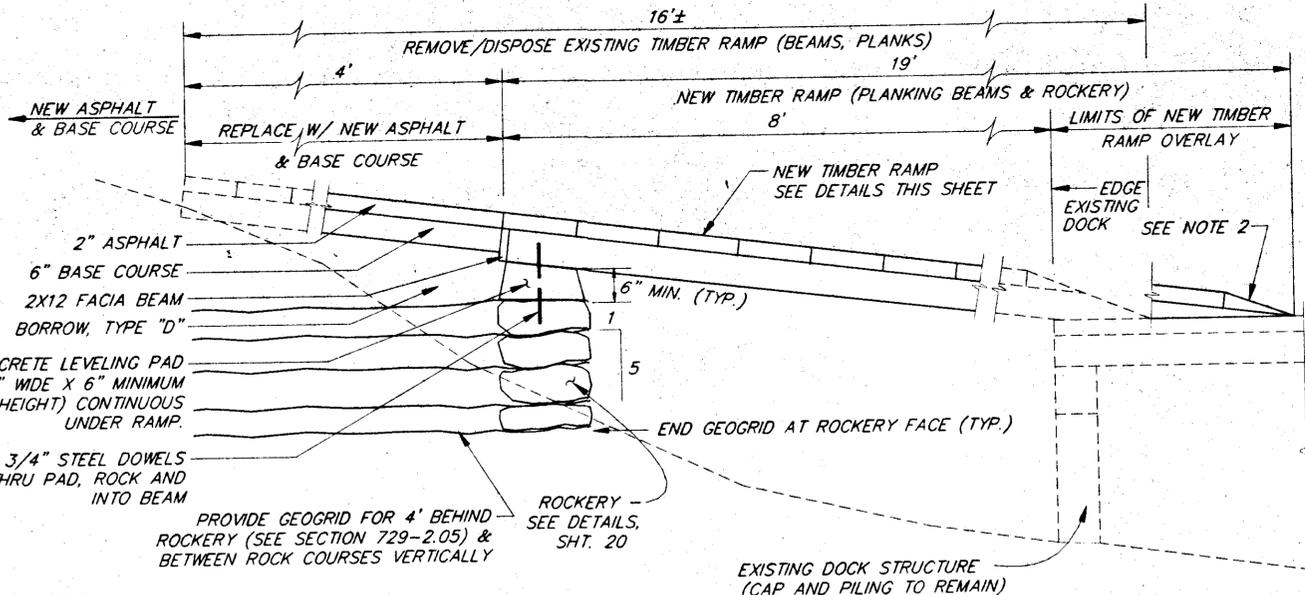




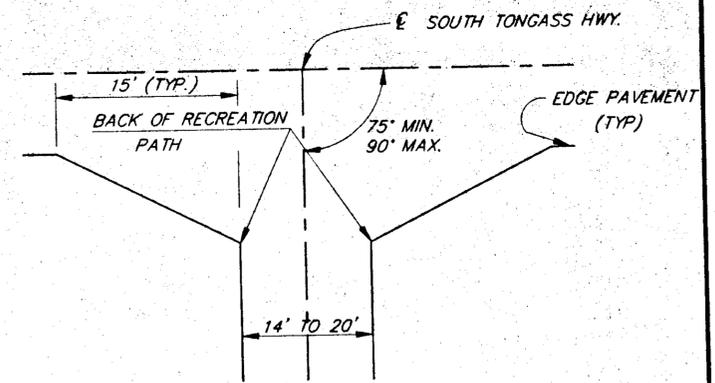
"D" LINE PLAN



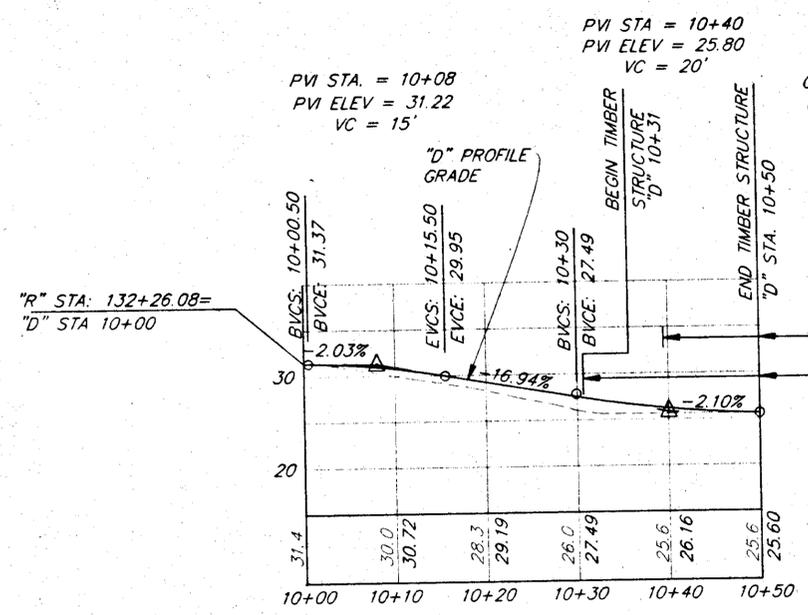
TREATED TIMBER SUMMARY				
COMPONENT	SIZE	WIDTH	LENGTH	THOUSAND BOARD FEET (MBM)
PLANKS	4"x12"	12"	18 x 18' = 324'	1.30
BEAMS	12"x12"	12"	6 x 18' = 138'	1.30
			TOTAL =	2.60



TIMBER RAMP PROFILE VIEW



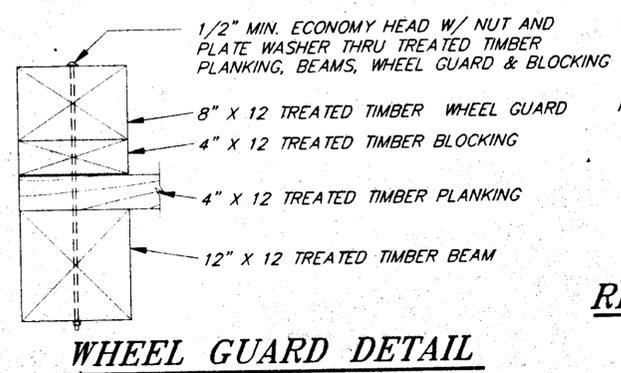
RESIDENTIAL DRIVEWAY TYPICAL RECONSTRUCTION DETAIL



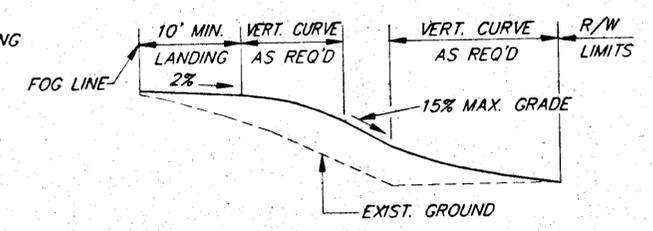
**"D" LINE PROFILE
"D" LINE DRIVEWAY DETAILS**

GENERAL NOTES:

1. TREATED TIMBER SHALL BE S4S, DOUGLAS FIR ALLOWABLE STRESS = 1400 psi MINIMUM. TREATMENT SHALL BE ACZA PRESERVATIVE OR EQUIVALENT, 0.4 pcf RETENTION BY ASSAY, PENETRATION = 0.4 INCHES IN ACCORDANCE WITH A.W.P.A. C2 STANDARD SPECIFICATIONS.
2. BEVEL LAST PLANK TO MATCH EXISTING GRADE AT OUTBOARD END.
3. FOR DRIVEWAYS, ASPHALT & BASE THICKNESSES, SHALL BE INCREASED TO 2" AND 6" RESPECTIVELY.
4. SEE DRIVEWAY SUMMARY SHT 4 FOR ADDITIONAL INFORMATION.



WHEEL GUARD DETAIL



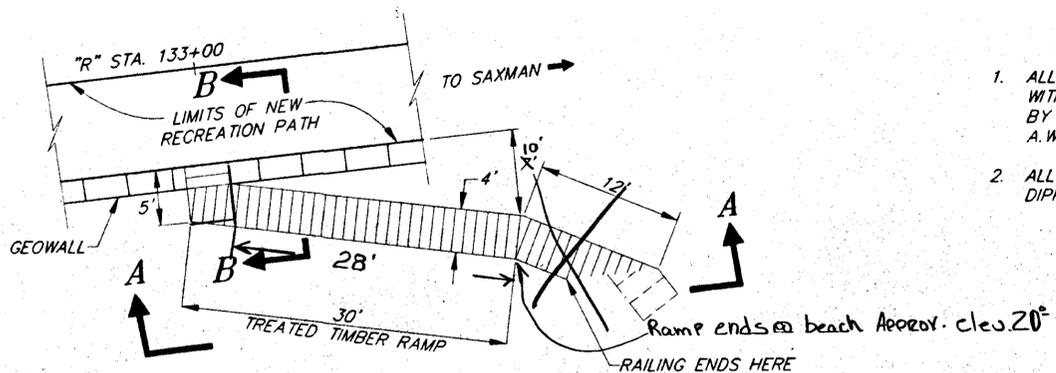
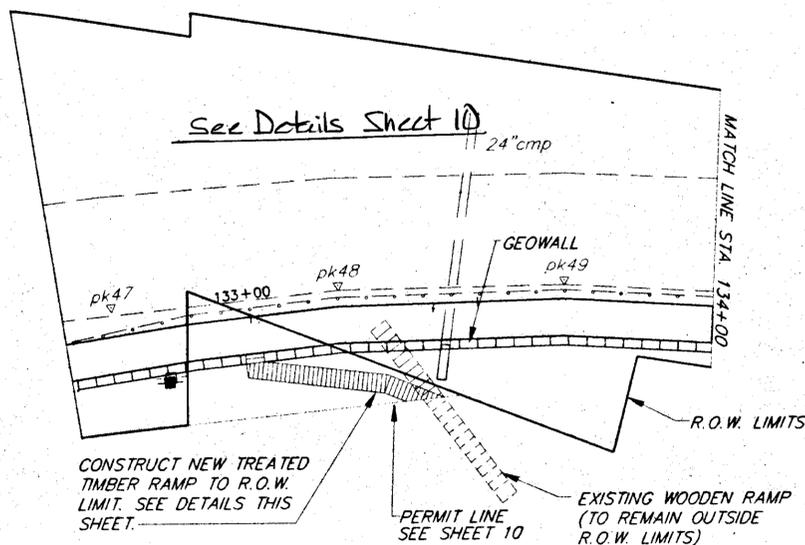
RESIDENTIAL PROFILE TYPICAL RECONSTRUCTION DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



RAMP NOTES:

1. ALL TIMBER SHALL BE S4S, 1400 PSI ALLOWABLE STRESS MIN., TREATED WITH ACZA OR EQUIVALENT PRESERVATIVE TREATMENT TO 0.4 PCF RETENTION BY ASSAY, 0.4 INCHES PENETRATION, IN ACCORDANCE WITH A.I.T.C. AND A.W.P.A. (C2) STANDARDS, RESPECTIVELY.
2. ALL STRUCTURAL STEEL BRACKETS, BOLTS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A-153.

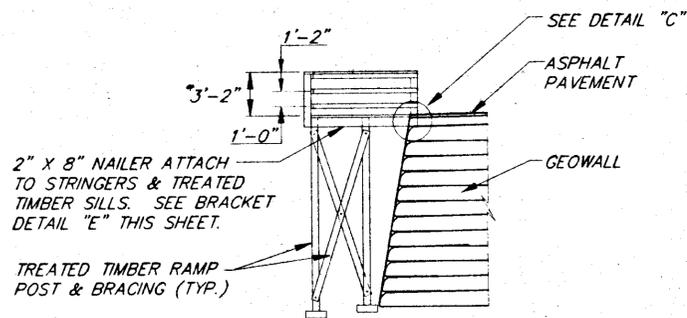


NOTE: PROVIDE OPENING IN CHAINLINK FENCE FOR ACCESS.

PLAN

MOUNT TREATED TIMBER HANDRAIL TO WATERSIDE STRINGER. ATTACH RAILS TO POSTS WITH 16d GALV. NAILS. SEE END VIEW B-B FOR SPACING OF RAILS. USE:

- 4" X 4" POSTS
- 2" X 8" TOPRAIL
- 2" X 4" GUARDRAIL



END VIEW B-B

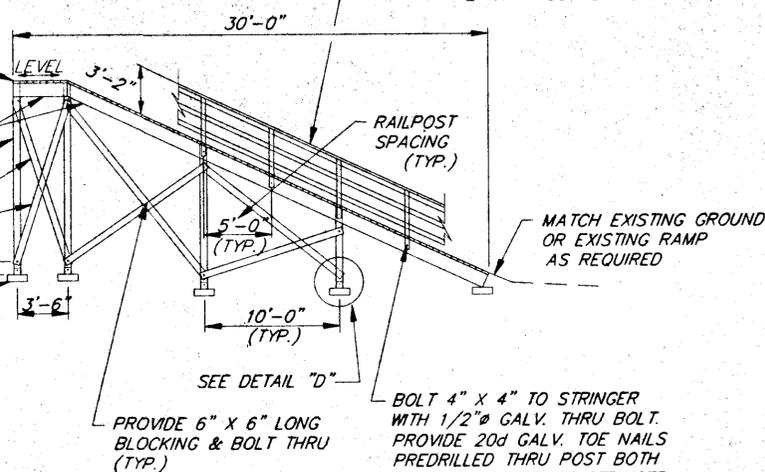
2' X 6" TREATED TIMBER PLANKS (TYP.)

2" X 8" TREATED TIMBER STRINGER (TYP. EACH SIDE) ATTACH TO POSTS W/ 2-20d GALV. NAILS PER POST CONNECTION.

6" X 6" TREATED TIMBER POST (TYP.)

2" X 6" TREATED TIMBER X-BRACING (TYP.) ATTACH W/ 5/8" X 6" GALV. LAG BOLTS

CONCRETE LEVEL PAD (SIZE AS REQ'D. 6" MIN. DEPTH) ATTACH & POST TO PAD W/ STEEL 1/4" X 6" X 6" X 6" LONG BRACKET. 2 REQ'D. PER POST PAD CONNECTION. MOUNT TO OPPOSITE SIDES POST, SEE DETAIL "E", THIS SHEET.



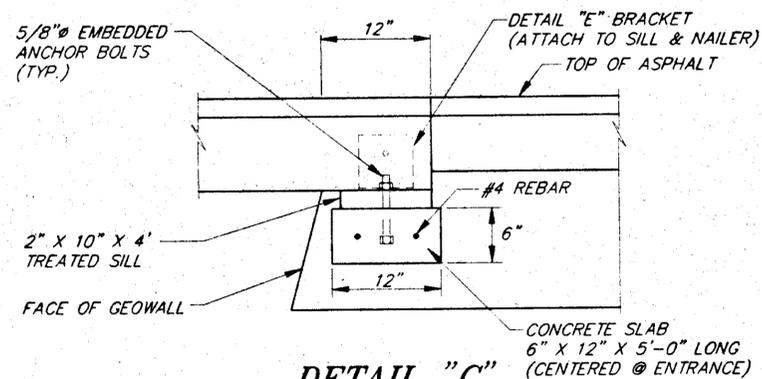
ELEVATION VIEW A-A

BOLT 4" X 4" TO STRINGER WITH 1/2" GALV. THRU BOLT. PROVIDE 20d GALV. TOE NAILS PREDRILLED THRU POST BOTH SIDES NEAR TOP OF STRINGER.

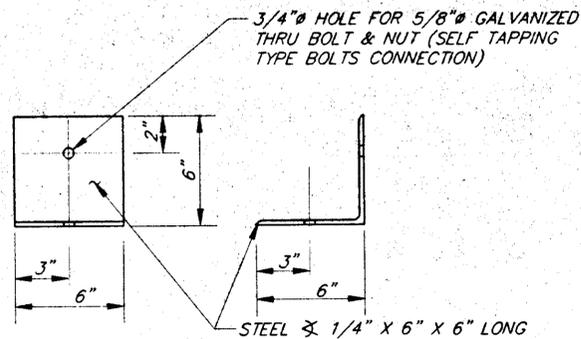
RAMP TREATED TIMBER SUMMARY				
COMPONENT	SIZE	WIDTH	LENGTH	THOUSAND BOARD FEET (MBF)
PLANKS	2" X 6"	6"	$\frac{70 \times 4}{12 \times 4} = 328'$	0.33
STRINGERS	2" X 8"	8"	$\frac{2 \times 49}{2 \times 12} = 104'$	0.14
POSTS	6" X 6"	6"	10 X 10' = 100'	0.30
X-BRACING	2" X 6"	6"	10 X 12' = 120'	0.12
HANDRAILING TOPRAIL	2" X 8"	8"	44'	0.06
SIDRAIL	2" X 4"	4"	44'	0.03
GUARDRAIL	2" X 4"	4"	2 X 44' = 88'	0.06
POSTS	4" X 4"	4"	8 X 4' = 32'	0.05
SILL	2" X 10"	10"	4'	0.01
TOTAL =				1.10

TREATED TIMBER RAMP DETAILS

STA. 133+00

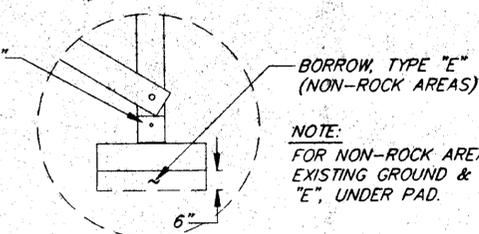


DETAIL "C"



BRACKET DETAIL "E"

SEE DETAIL "E" THIS SHEET STEEL $\frac{1}{4}$ " X 6" X 6" X 6" BRACKET



DETAIL "D"
POST TO PAD CONNECTION

TREATED TIMBER RAMP DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\KTN\71372\DR\--RAMP PLOT.F.PCP(20) OR PLOT.H.PCP(40)

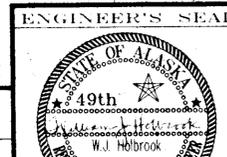
BY: DATE: DESCRIPTION OF CHANGE:

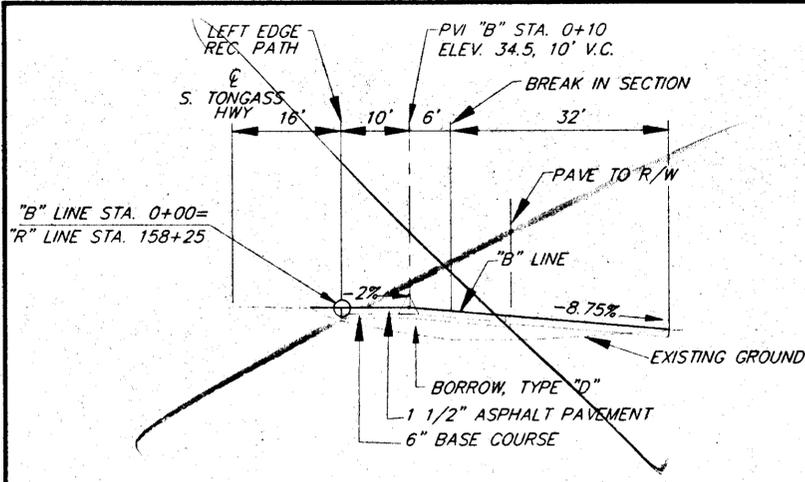
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372

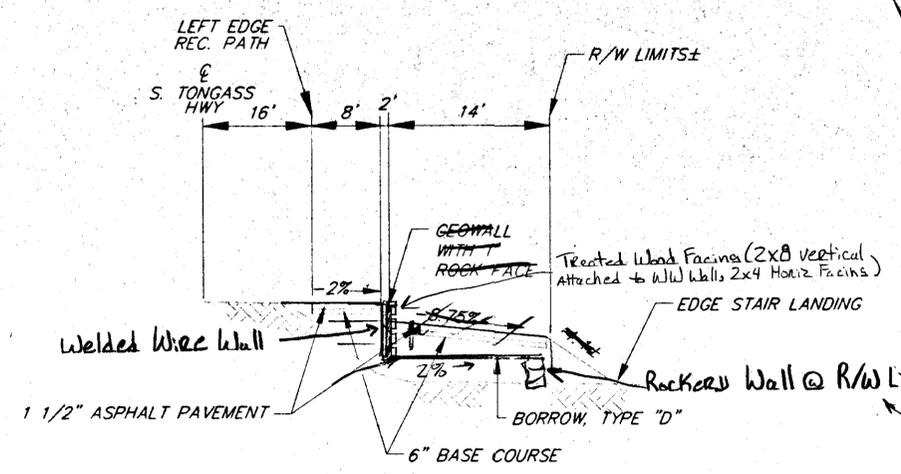
ALASKA
DESIGNED BY: W. HOLBROOK
DRAWN BY: K. SNYDER

PROJECT NO. 71372
DATE: AUGUST 1995

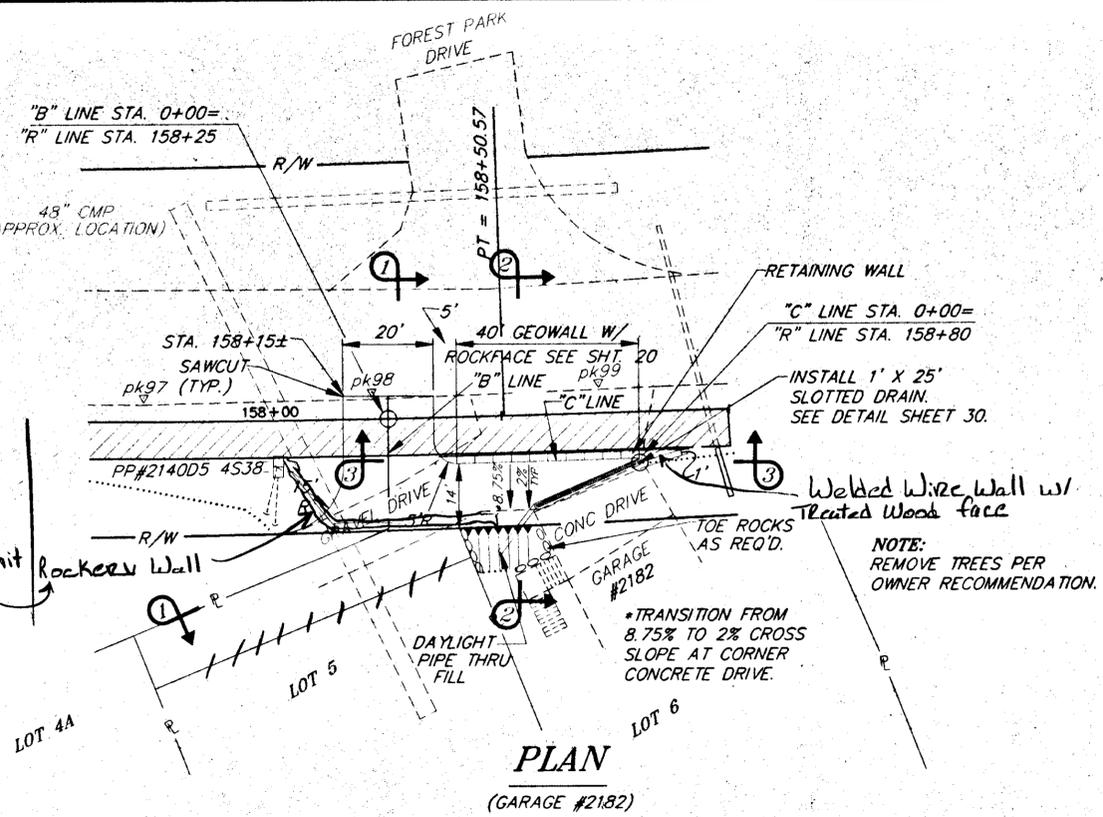




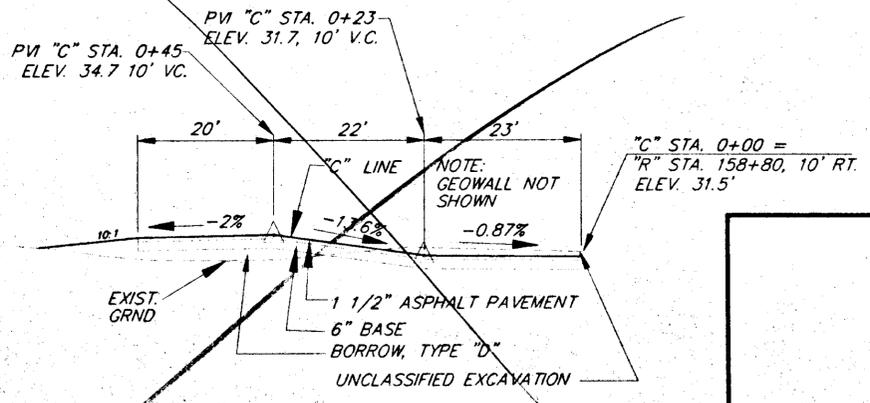
SECTION 1-1



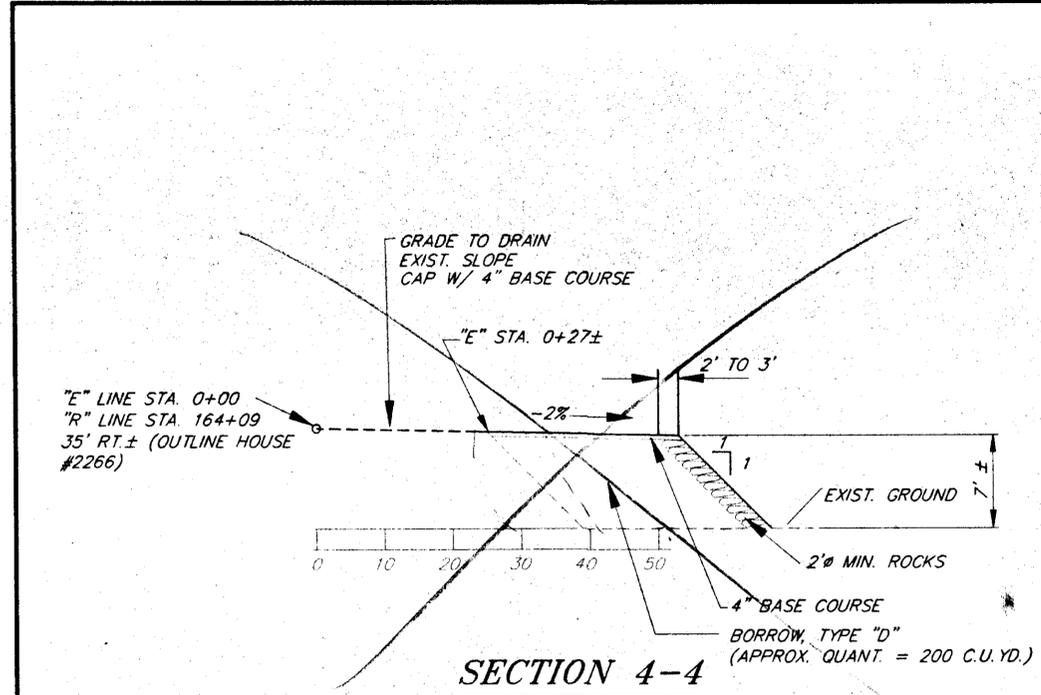
SECTION 2-2



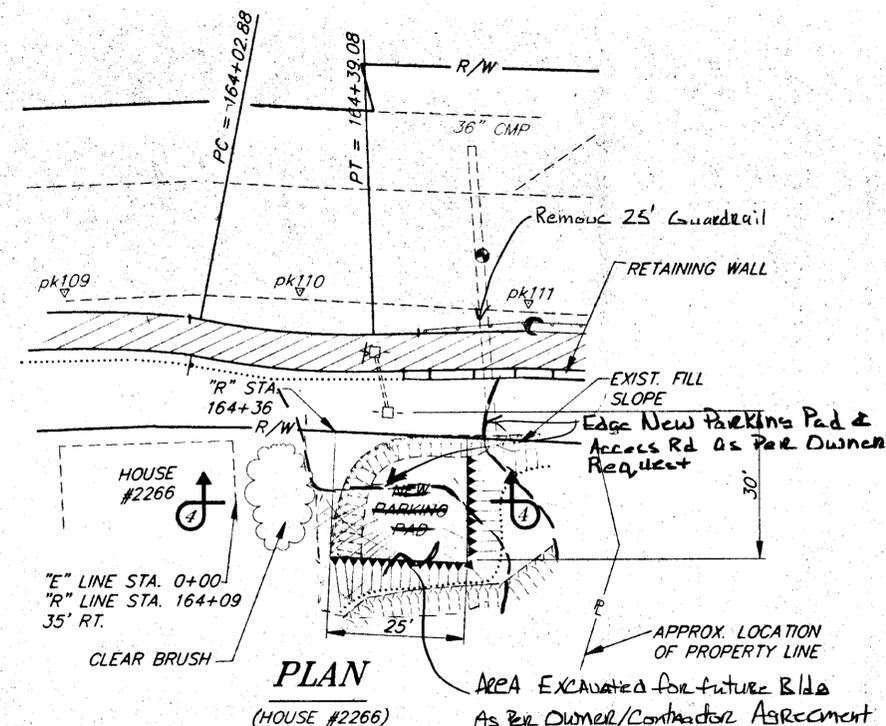
PLAN
(GARAGE #2182)



SECTION 3-3



SECTION 4-4
(HOUSE #2266)



PLAN
(HOUSE #2266)

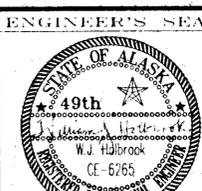
PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

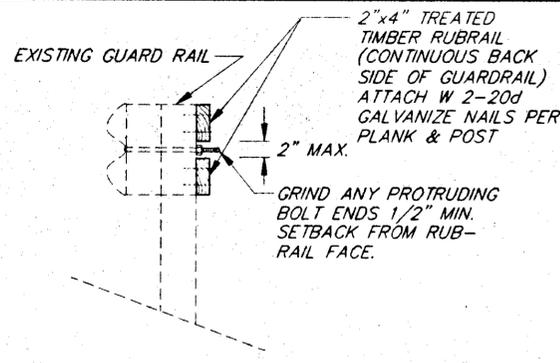
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372
ALASKA
PLAN & PROFILES

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY:	PROJECT NO.
W. HOLBROOK	71372
DRAWN BY:	DATE:
K. SNYDER	AUGUST 1995

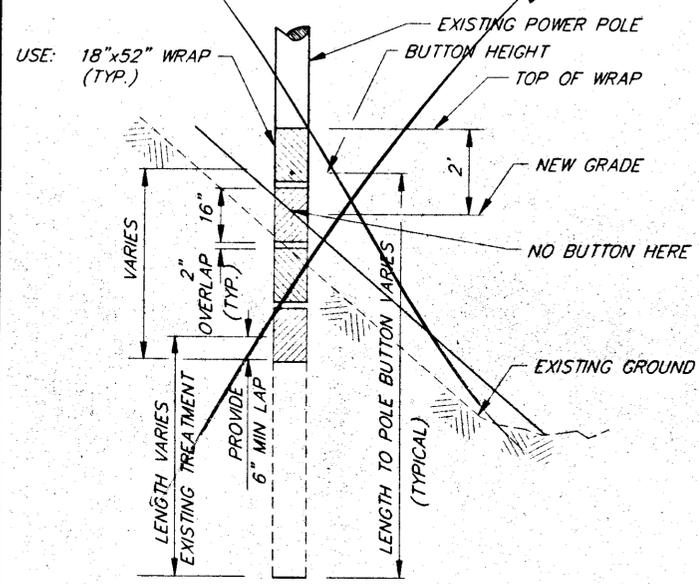




- RUBRAIL NOTES:**
1. TREATED TIMBER MAY BE ROUGH SAWN HEM-FIR OR LARCH, ACZA PRESERVATIVE OR EQUIVALENT TREATED 0.4 PCF RETENTION BY ASSAY IN ACCORDANCE WITH AWWA-C2 STANDARDS MINIMUM BOARD ALLOWABLE STRESS $f_b = 1200\text{PSI}$.
 2. 45° BEVEL LEADING AND TRAILING EXPOSED EDGES.
 3. RUBRAILS NOT REQUIRED BEHIND GUARDRAIL AT GRAVEL SHIELD LOCATIONS (TYPICAL NO 2-SHT 2).
 4. FOR STEEL POSTS, PREDRILL 7/16" Ø DIAMETER HOLE IN POST AND RUBRAIL FOR 3/8" Ø CARRIAGE OR ECONOMY HEAD BOLT ATTACHMENT (HEAD OF BOLT FACING RECREATION PATH).

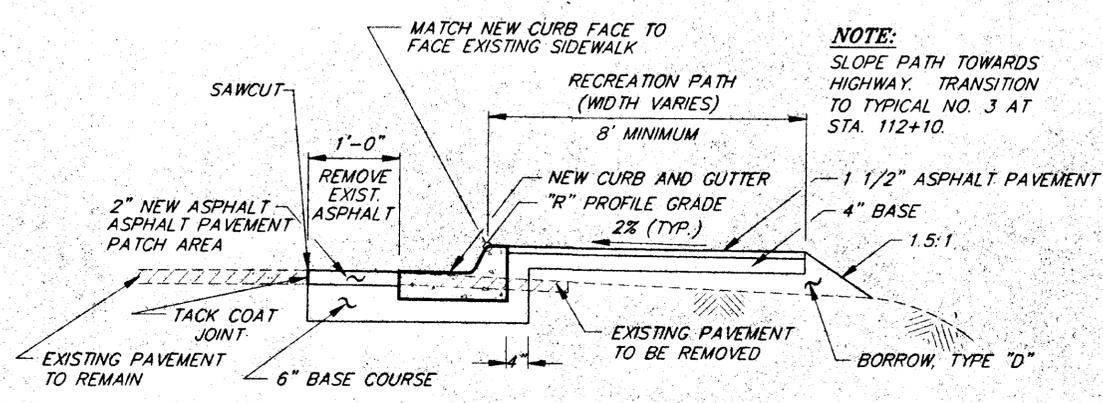
STATION TO	STATION	LENGTH (L.A.)	QUANTITY (L.F.)	THOUSAND BOARD FEET (MBM)
112~	114+90	290	580	0.77
118+05	118+95	90	180	0.24
122+65	123+50	85	170	0.23
128+60	128+90	30	60	0.08
132+60	140+25	765	1530	2.04
144+55	151+35	680	1360	1.81
161+55	161+90	35	70	0.09
164+50	168+70	420	840	1.12
170+80	178+10	730	1460	1.95
TOTAL LF			= 6,250	= 8.33 MBM

TREATED TIMBER RUBRAIL ELEVATION DETAIL



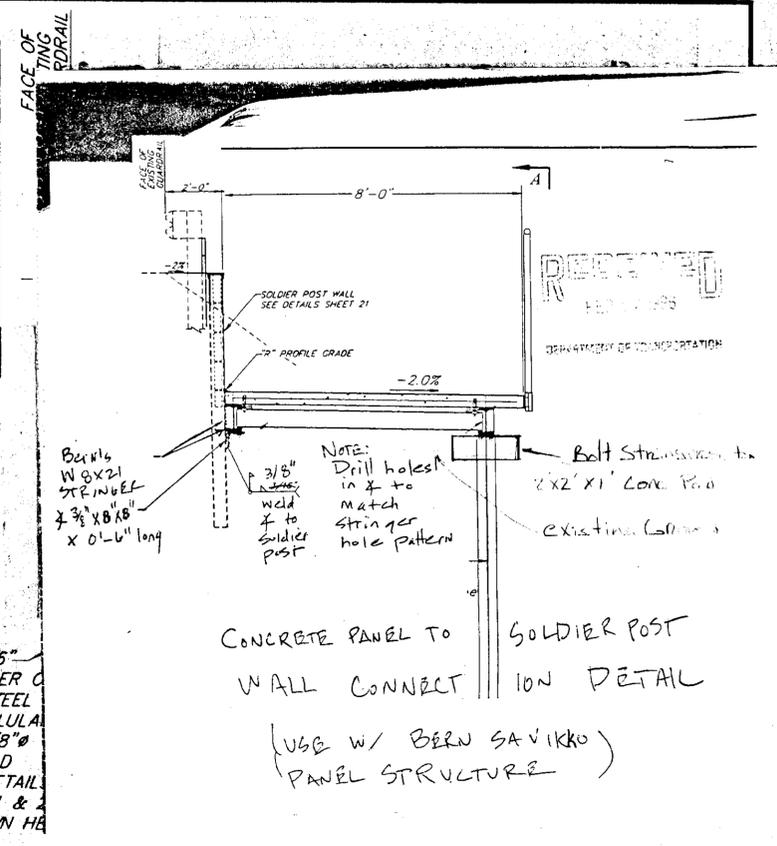
Deleted as Per KPU directions

RUBRAIL DETAILS



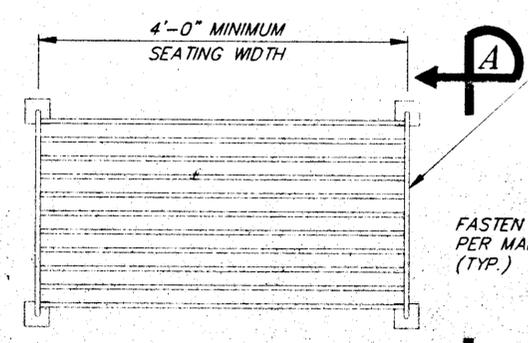
NOTE:
SLOPE PATH TOWARDS HIGHWAY. TRANSITION TO TYPICAL NO. 3 AT STA. 112+10.

5 1/8" x 10'-6" TREATED TIMBER C BOLTED TO STEEL ANGLE AND GLULAM PANEL W/ 5/8" Ø ECONOMY HEAD BOLTS PER DETAIL ON SHEETS 21 & 2 AND AS SHOWN HA



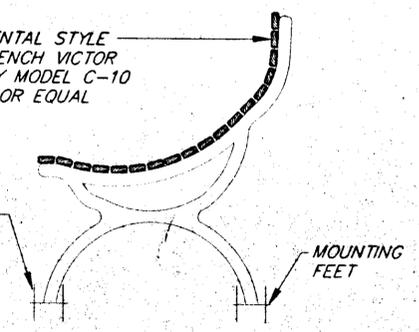
Concrete Panel GLULAM PANEL TO SOLDIER POST WALL CONNECTION DETAIL
SEE TYPICAL NO. 2/3, SHT 3

UTILITY POLE PROTECTION WRAP DETAIL

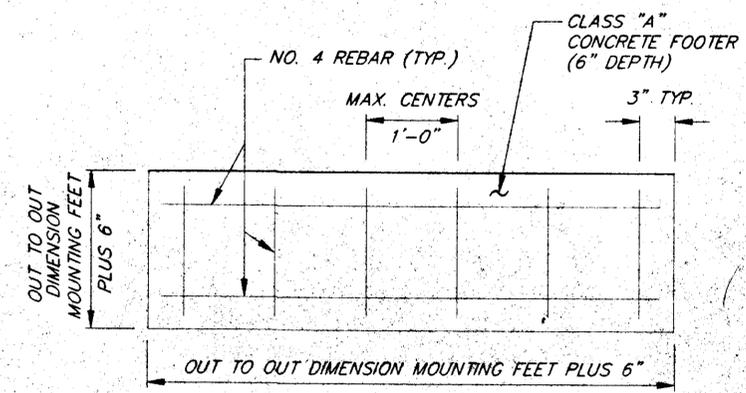


ORNAMENTAL STYLE PARK BENCH VICTOR STANLEY MODEL C-10 SHOWN OR EQUAL

FASTEN TO FOOTER PER MANUFACTURER (TYP.)



SECTION A-A



CONCRETE FOOTER DETAILS

SAWCUT DETAIL AT CURB AND GUTTER
INSTALLATION BOP STA. 109+89 TO STA. 112+10
(SEE PLANS SHEET NO. 6)

STATION TO	STATION	NO. BENCHES	LONGITUDINAL SPACING	ORIENTATION
138+90	139+15	2	15'	PARALLEL TO PATH @
144+50	146+50	4	50'	FACING EACH OTHER 90° TO PATH @

- BENCH NOTES:**
1. INSTALL BENCHES PER SPACING AND ORIENTATION CRITERIA IN TABLE. LOCATE BENCHES A MINIMUM OF 5' OFFSET FROM OUTBOARD EDGE OF 8' RECREATION PATH.
 2. FASTEN TO CONCRETE FOOTER SHOWN PER MANUFACTURER RECOMMENDATIONS.
 3. SEE PLANS FOR LOCATIONS.

BENCH PLAN
NOTE: FOOTING NOT SHOWN

BENCH DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

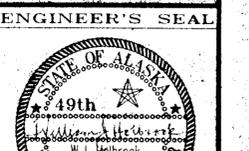
PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

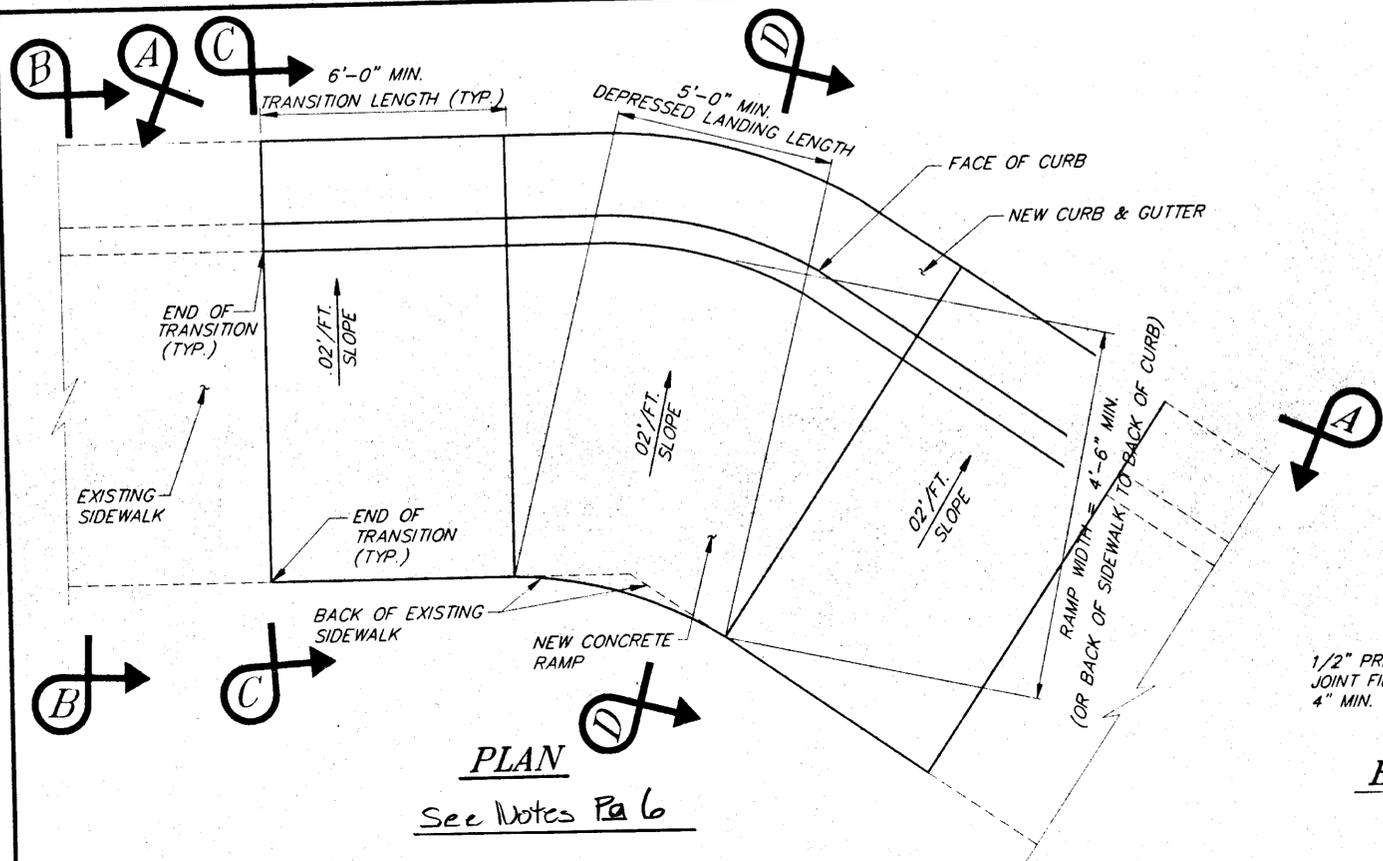
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372

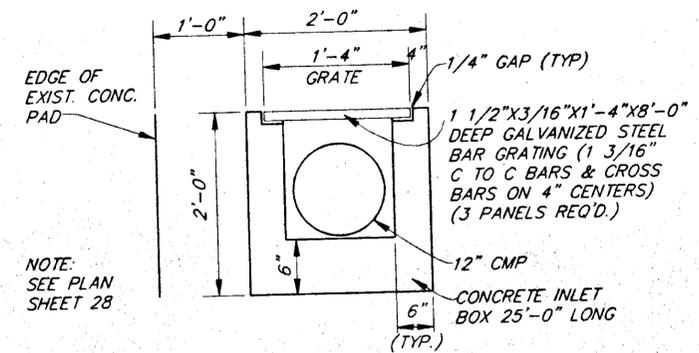
ALASKA
DESIGNED BY:
DRAWN BY: W. HOLBROOK

PROJECT NO. 71372
DATE:

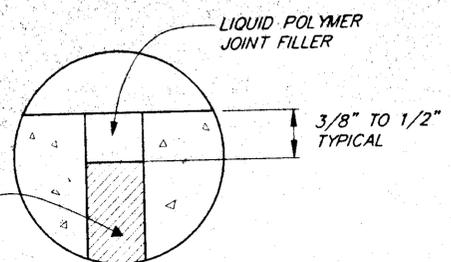




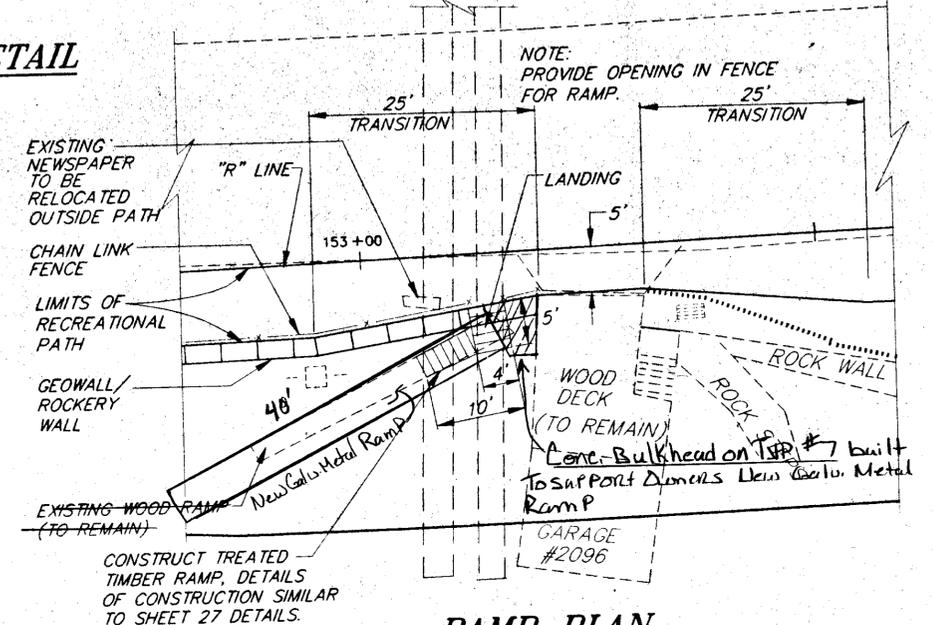
PLAN
See Notes Pa 6



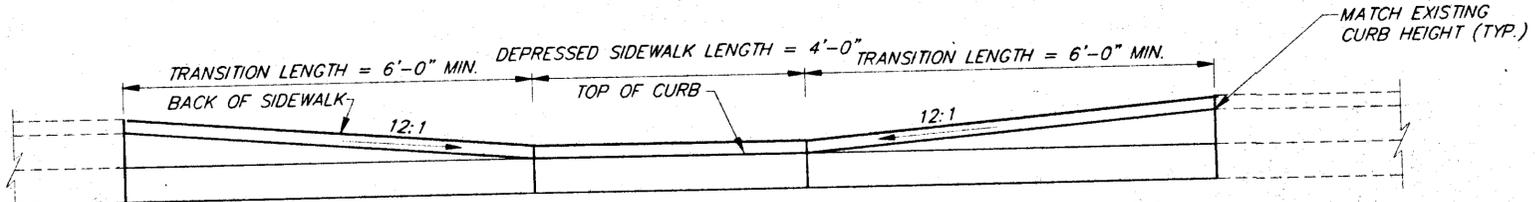
SLOTTED DRAIN DETAIL
(GARAGE # 2182)



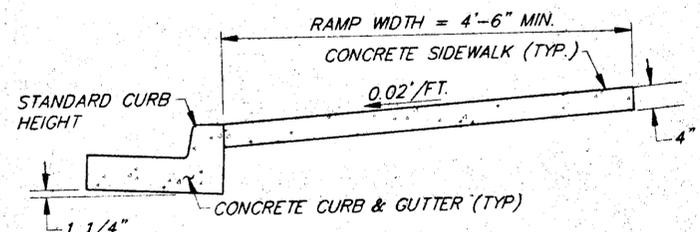
EXPANSION JOINT DETAIL



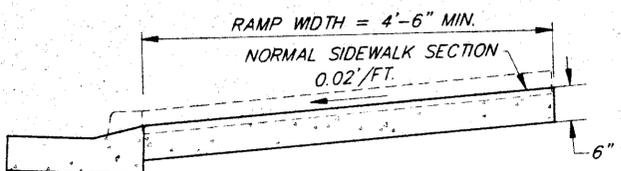
RAMP PLAN
AT STA. 153+15



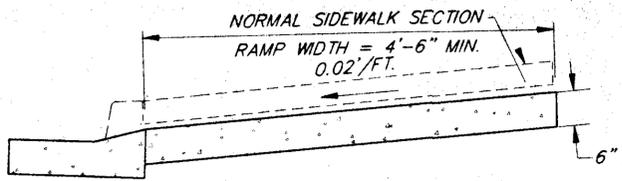
ELEVATION VIEW A-A - WHEELCHAIR RAMP DETAILS



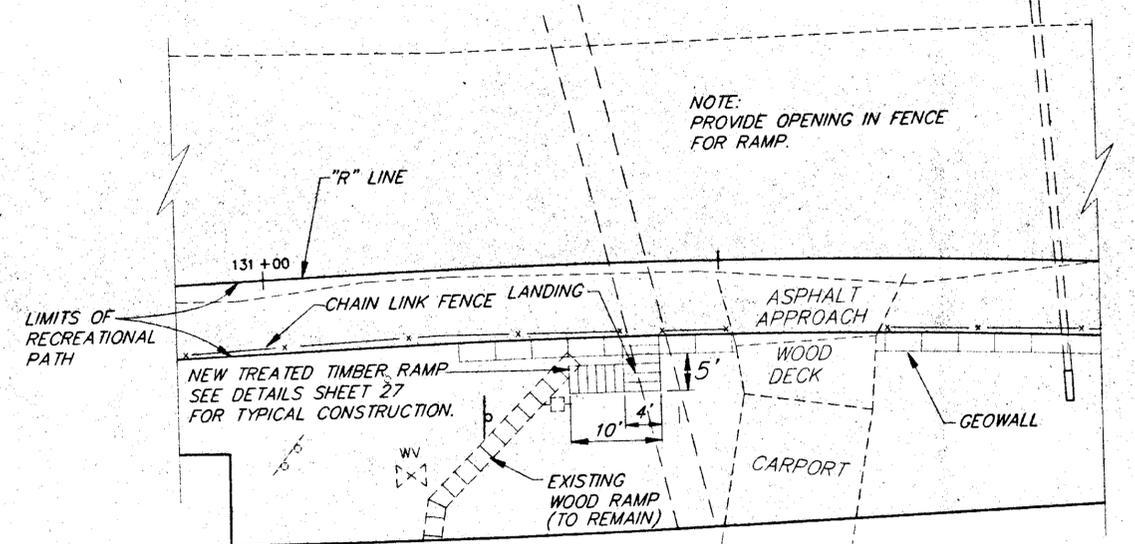
SECTION VIEW B-B
(NORMAL SIDEWALK SECTION)



SECTION VIEW C-C
(TRANSITION AREA)



SECTION VIEW D-D
(DEPRESSED LANDING CURB & SIDEWALK)



RAMP PLAN
AT STA. 131+40

See Change Order #2, line change for new Path alignment, Carport & Ramp Plan

WHEELCHAIR RAMP NOTES:

1. SEE SAWCUT, PAVEMENT PATCHING AND SIDEWALK CONSTRUCTION DETAIL, SHEET 29 FOR ADDITIONAL DETAILS.
2. PROVIDE EXPANSION JOINTS AT ENDS OF TRANSITION AREAS AND DEPRESSED LANDING AREAS. SEE EXPANSION JOINT DETAIL THIS SHEET AND STANDARD DRAWING I-20.11 FOR ADDITIONAL DETAILS.
3. SUBSTITUTE CONCRETE PAVEMENT FOR ASPHALT SHOWN ON DETAIL REFERENCED FROM NOTE 1 ABOVE. ALL OTHER DETAILS THE SAME.
4. BROOM FINISH CONCRETE.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS



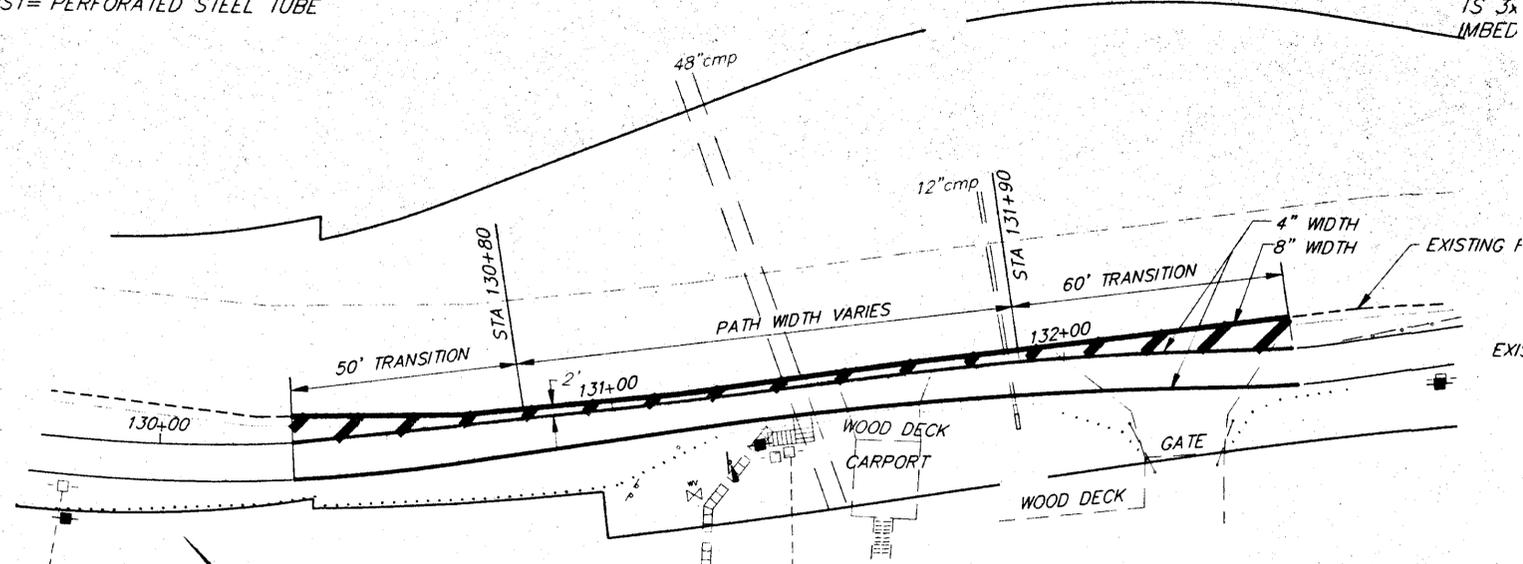
SIGN SUMMARY

SIGN NO.	STATION	* OFFSET		CODE NO.	LEGEND	SIGN PANEL			NO. OF POSTS	TYPE	POSTS			REMARKS
		LT.	RT.			SIZE	THICKNESS	AREA SQ. FT.			SIZE	LENGTH	EMBEDMENT	
1	110+55			R5-3	NO MOTOR VEHICLES	24"x24"	0.080"	4	1	PST	2"x2"	7'-9"	3'-0"	NEW SIGN & POST.
2	112+85	1'		R8-3	NO PARKING				1	PST	2"x2"	9'-9"	3'-6"	RELOCATE EXISTING SIGN ON NEW POST.
3	115+70		11'	R5-3	NO MOTOR VEHICLES	24"x24"	0.080"	4	1	PST	2"x2"	7'-9"	3'-0"	RELOCATE EXISTING SIGN ON NEW POST.
4	118+75		11'	R2-1	SPEED LIMIT 45 MPH				1	PST	2"x2"	8'-3"	3'-0"	RELOCATE EXISTING SIGN ON NEW POST.
5	123+75		11'		PLEASE DON'T LITTER				2	PST	2"x2"	7'-9"	3'-0"	RELOCATE EXISTING SIGN ON 2 NEW POSTS.
6	124+77	6'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
7	125+50		11'	R5-3	NO MOTOR VEHICLES	24"x24"	0.080"	4	1	PST	2"x2"	7'-9"	3'-0"	NEW SIGN & POST.
8	131+25		11'	R8-3	NO PARKING	24"x30"	0.080"	5	1	PST	2"x2"	10'-3"	3'-0"	NEW SIGN & POST.
9	134+90		11'	R9-6	YIELD TO PEDS.	12"x18"	0.080"	3	1	PST	2"x2"	11'-3"	3'-0"	NEW SIGNS (2) AND POST. MOUNT TO BOTH SIDES SAME POST.
10	139+70		11'	W1-4R W13-1		30"x30" 18"x18"	0.080" 0.080"	6.25 2.25	1	TUBE STEEL	3"x3"	13'-9"	3'-0"	** RELOCATE EXISTING SIGNS ON NEW POST.
11	143+42	5'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
12	144+72	7'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
13	146+34	5'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
14	148+00		11'	R9-6	YIELD TO PEDS.	12"x18"	0.080"	3	1	PST	2"x2"	14'-3"	3'-0"	RELOCATE EXISTING SIGN ON NEW POST.
15	151+05	1'		W2-1					1	PST	2"x2"	9'-9"	4'-0"	RELOCATE EXISTING SIGN ON NEW POST.
16	152+35		11'	R2-1	SPEED LIMIT 30 MPH				1	PST	2"x2"	9'-3"	3'-6"	RELOCATE EXISTING SIGN ON NEW POST.
17	154+50		11'	S3-1	SCHOOL BUS STOP AHEAD				1	PST	2"x2"	10'-3"	4'-0"	RELOCATE EXISTING SIGN ON NEW POST.
18	159+79	6'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
19	164+03		11'	R5-3	NO MOTOR VEHICLES	24"x24"	0.080"	4	1	PST	2"x2"	8'-3"	3'-0"	NEW SIGN & POST.
20	164+40	5'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
21	166+33	5'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
22	168+95	1'		D10-1	MILE 2				1	PST	2"x2"			RELOCATE EXISTING SIGN ON NEW POST.
23	170+05		11'	R9-6	YIELD TO PEDS.	12"x18"	0.080"	3	1	PST	2"x2"		3'-0"	NEW SIGNS (2) AND POST. MOUNT TO BOTH SIDES SAME POST.
24	173+93	7'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
25	176+03	5'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
26	177+60	7'		OM-3R		12"x36"	.02	6						TYPE III OBJECT MARKER SIGNS (2) MOUNT TO BOTH SIDES POWER POLE. SEE NOTE 6.
27	181+25		11'	R8-3 R8-1A	NO PARKING ON PAVEMENT OR WITHIN 8 FEET	24"x30" 12"x24"	0.080" 0.080"	5 2	1	PST	2"x2"	9'-0"	3'-6"	NEW SIGN
28	181+25		11'	R8-3 R8-1A	NO PARKING ON PAVEMENT OR WITHIN 8 FEET	24"x30" 12"x24"	0.080" 0.080"	5 2	1	PST	2"x2"	9'-0"	3'-6"	NEW SIGN
						TOTAL S.F.=112.50								

SIGNING NOTES:

- SIGN LOCATIONS ARE SHOWN ON P&P SHEETS, IDENTIFIED BY SIGN NO. CORRESPONDING TO THOSE SHOWN IN SIGNING SUMMARY.
- REMOVE & DISPOSE OF ALL EXISTING SIGN POSTS. EXISTING SIGNS SHALL BE RELOCATED PER SIGNING SUMMARY THIS SHEET.
- SIGNING CODE NUMBER AND SIZING DESIGNATION PER ALASKA SIGNING MANUAL (ASM) AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR HIGHWAY CLASS L DESIGNATION.
- ALL POSTS SHALL BE FABRICATED FROM SHEET STEEL ASTM A-446 GRADE D MIN. (fy=50 KSI). ALL SIGNS SHALL BE SHEET ALUMINUM ALLOY 6061-T6, OR 5052-H36 OR H38 PER SECTION 730.
- NEW AND RELOCATED SIGNS SHALL BE PLACED A MINIMUM OF 3' OUTBOARD AND 5' MINIMUM ABOVE (FINISH GRADE PATH TO BASE OF SIGN) EXCEPT AS NOTED IN THE SIGNING SUMMARY. SIGNS PLACED BETWEEN EXISTING GUARDRAIL AND RECREATION PATH SHALL BE PLACED A MINIMUM OF 6'-6" ABOVE THE PATH. SECONDARY SIGN PANEL MOUNTING HEIGHTS (2 SIGNS, SAME DIRECTION MOUNTED ON 1 POST) SHALL BE PER STANDARD DRAWING S-05.00.
- TYPE III OBJECT MARKER SIGNS SHALL BE MOUNTED TO POLE WITH 1/2" STAINLESS STEEL STAPLES. DISTANCE FROM FINISH GRADE RECREATION PATH TO BOTTOM OF SIGN SHALL BE 4'. BRACE POLE SIGN SHALL BE MOUNTED IN ITS LONG DIRECTION ALONG THE AXIS OF THE POLE A MINIMUM OF 1' ABOVE GRADE.
- POST EMBEDMENT SHALL BE PER STANDARD DRAWING S-30.01 REQUIREMENTS. POST LENGTHS SHOWN DO NOT INCLUDE EMBEDMENT SLEEVE LENGTHS. POST LENGTHS SHOWN MEASURED FROM TOP OF SIGN TO 9" BELOW GROUND LEVEL.
- ROCK WILL BE ENCOUNTERED. EMBEDMENT LENGTHS SHOWN ARE FOR SOLE

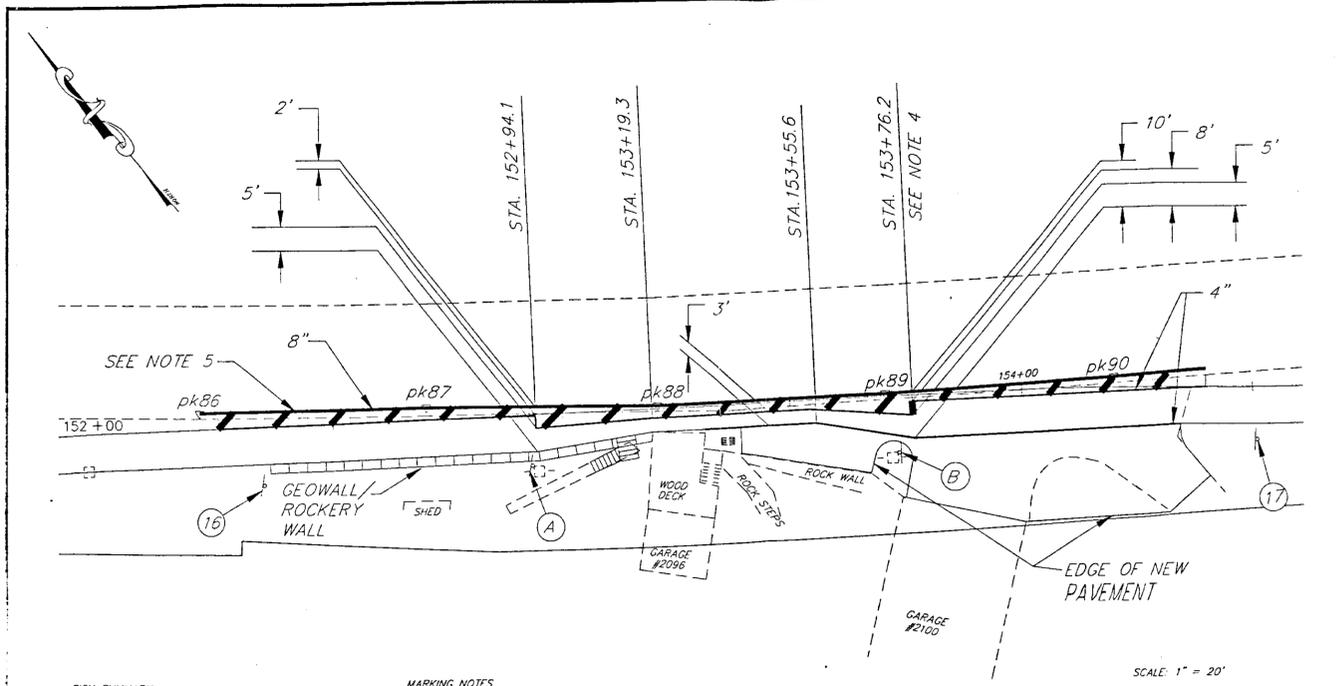
* MEASURED FROM LEFT EDGE OF RECPATH.
 † MEASURED FROM FOGLINE.
 PST= PERFORATED STEEL TUBE



MARKING PLAN
 AT STA 131+40

MARKING NOTE

- ALL PAINT IS SOLID WHITE
- DIAGONAL STRIPES ARE 18" WIDE, SPACED 12' C TO ROADWAY EDGE LINE.
- THICKNESS DIMENSIONS ARE CENTERLINE STRIPE

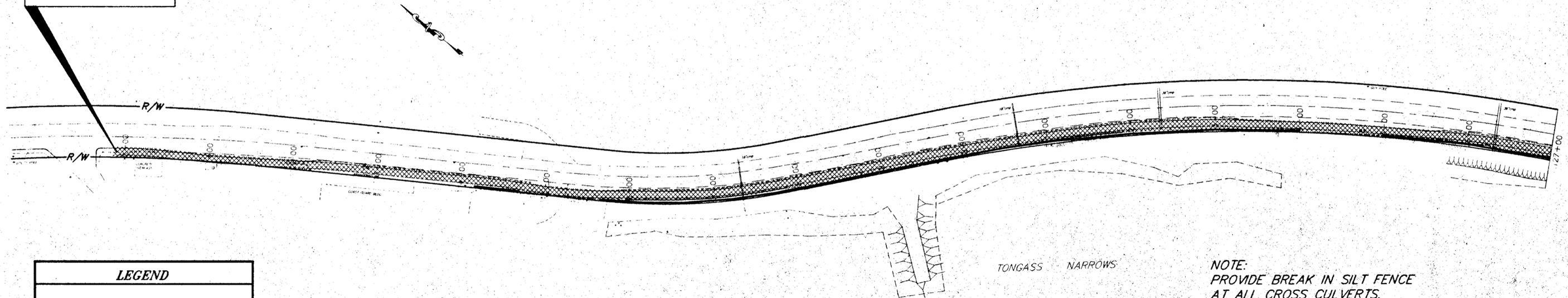


- MARKING NOTES**
- ALL PAINT IS SOLID WHITE.
 - DIAGONAL STRIPES ARE 18" WIDE ARE SPACED 12' O.C., AND ORIENTED 45 DEGREES TO ROADWAY EDGE LINE.
 - STRIPING DIMENSIONS ARE CENTERLINE STRIPE TO CENTERLINE STRIPE.
 - 18" X 3" STOP BAR.
 - CENTER 8" STRIPE ON P.K. NAIL DESIGN LINE.

KTN S. TONGASS HIGHWAY
 C.G. ENTRANCE TO SAXMAN
 RECREATION PATH
 PROJ NO. TE-0902(18) 71372

ROTATED 51°

BEGIN PROJECT
"R" STA. 109+89.72



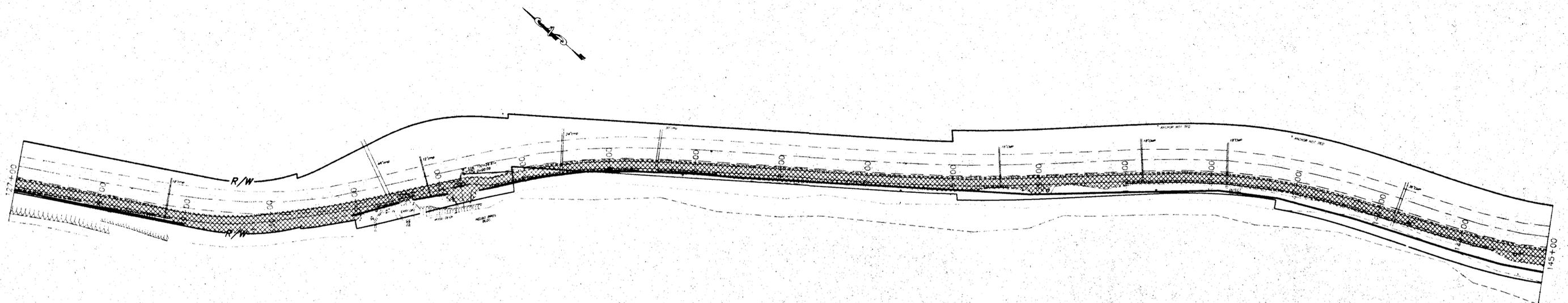
LEGEND

 AREA OF DISTURBANCE

 SILT FENCE

NOTE:
PROVIDE BREAK IN SILT FENCE
AT ALL CROSS CULVERTS.

ROTATED 50°



NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH:	
BY:	DATE:
	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

KETCHIKAN SOUTH TONGASS HIGHWAY ALASKA
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372

DESIGNED BY:
W. HOLBROOK

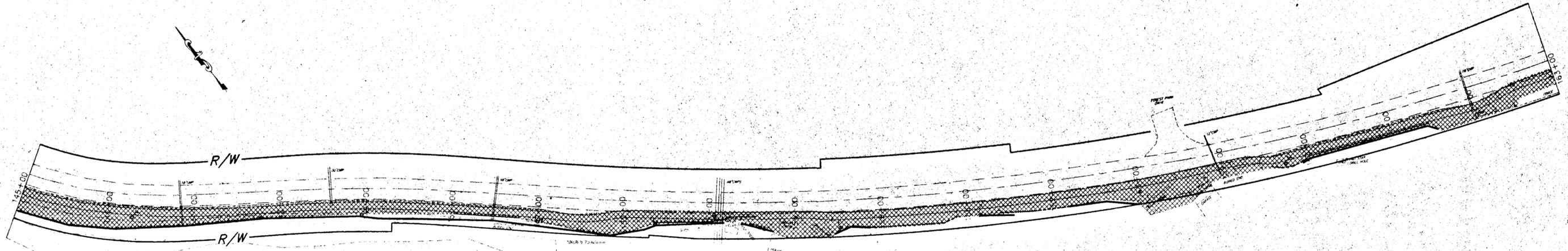
DRAWN BY:
C. BECKER

PROJECT NO.
71372

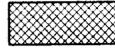
DATE:
AUGUST 1995



ROTATED 38°



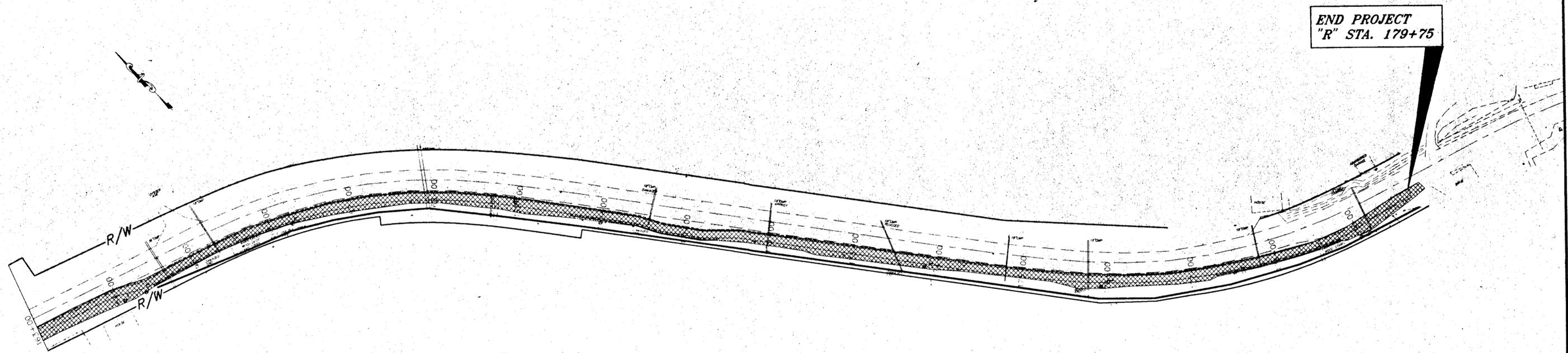
LEGEND

 AREA OF DISTURBANCE

 SILT FENCE

NOTE:
PROVIDE BREAK IN SILT FENCE
AT ALL CROSS CULVERTS.

ROTATED 44°



END PROJECT
"R" STA. 179+75

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

PATH:	STATE OF ALASKA
BY:	DESCRIPTION OF CHANGE:
DATE:	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

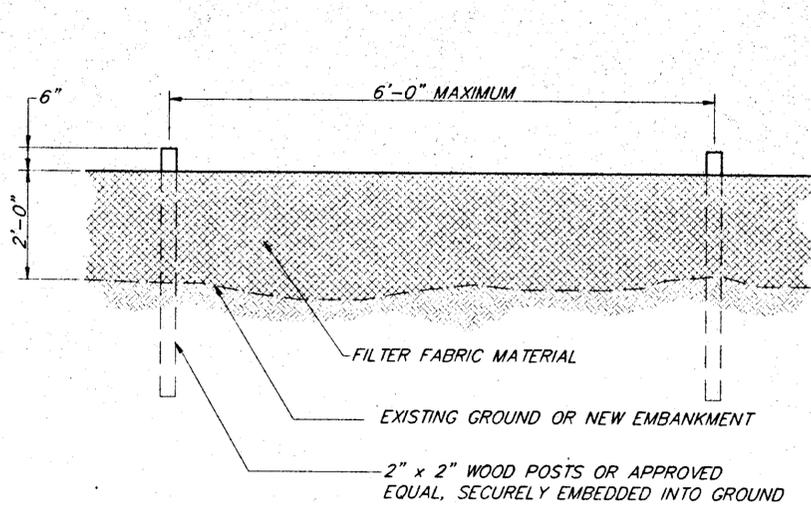
KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAYMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 21372

ALASKA

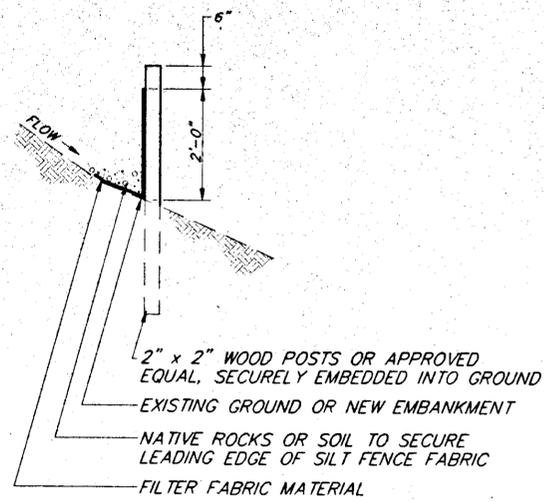
DESIGNED BY:
W. HOLBROOK

PROJECT NO.
71372





ELEVATION



SECTION

SILT FENCE DETAILS

SILT FENCE SUMMARY				
STATION TO	STATION	OFFSET	L.F. REQ'D.	REMARKS
114+25	114+75		50' 52	
115+50	124+00		850' 844	
125+00	129+00		400' 415	
130+80	131+50		70' 77	
131+70	132+10		40' 43	
132+50	151+50		+900' 1805	
152+30	153+20		90' 82	
153+50	153+80		30'	
154+40	154+60		20'	Delete
156+20	156+40		20'	Delete
157+20	158+00		80' 81	
159+90	161+70		+80' 268	
164+50	179+50		1500' 1467	
		TOTAL =	5230'	

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: F:\A\1\1652\05\FOLDER1\PL01.PLT, OR PL01.PLT, 21
 BY: DATE: DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION

KETCHIKAN
 SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
 PROJECT NO. TE-0002 (18) 71372

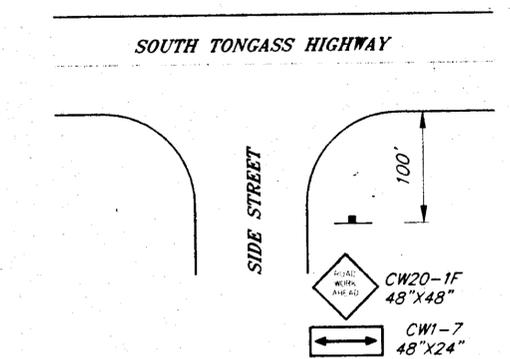
ALASKA
 DESIGNED BY: W.J. HOLBROOK
 DRAWN BY:

PROJECT NO. 71372
 DATE:

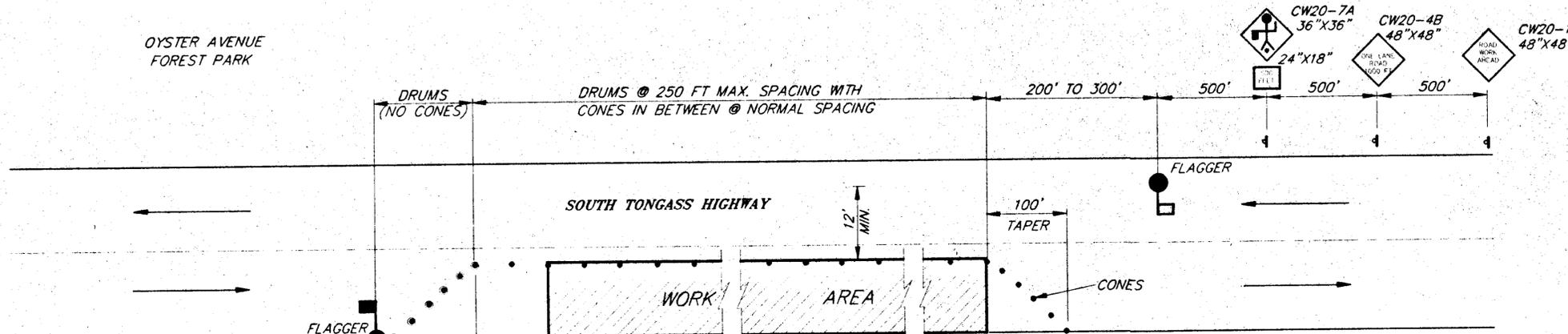


TRAFFIC CONTROL NOTES

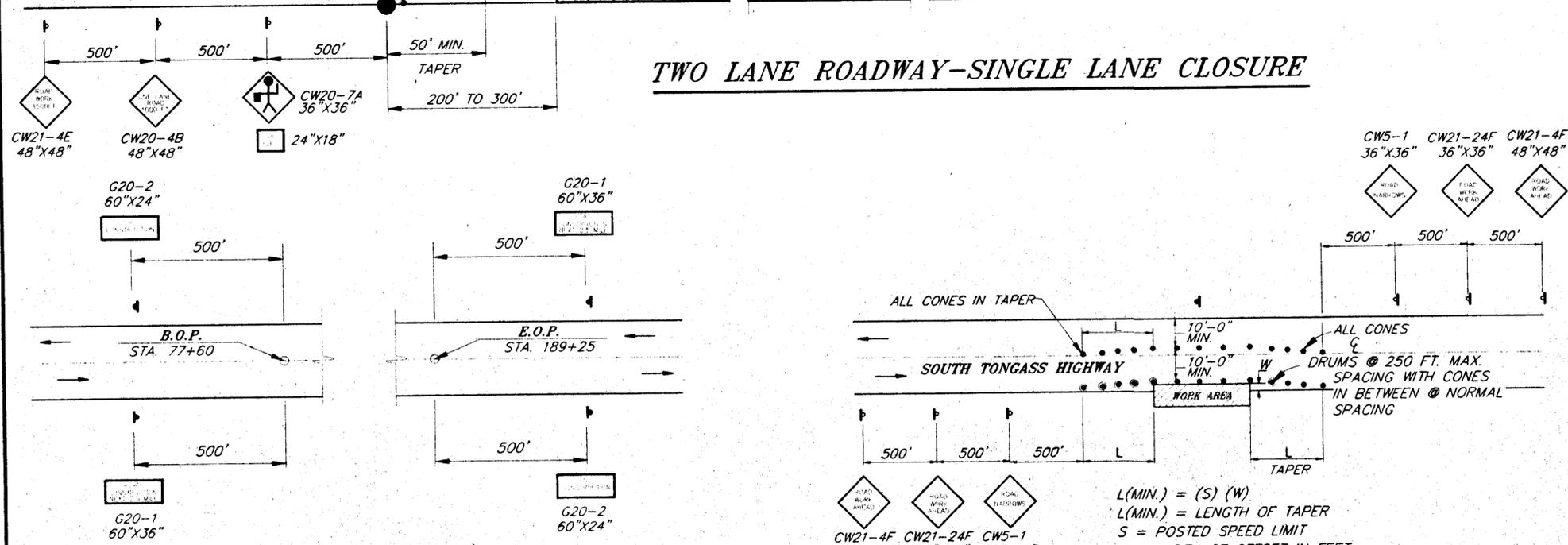
1. CONSTRUCTION SIGNING, FLAGGING, DETOURS AND GENERAL TRAFFIC CONTROL FEATURES SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE "C" SERIES STANDARD DRAWINGS, THE APPLICABLE PORTIONS OF SECTION 115 AND 643 OF THE SPECIFICATIONS AND THE ALASKA TRAFFIC MANUAL.
2. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
3. NO DRIVEWAY CLOSURES WILL BE ALLOWED WITHOUT THE CONSENT OF THE PROPERTY OWNER. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS.
4. MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES SHALL BE EQUAL TO THE SPEED LIMIT IN FEET ON TANGENTS AND 25' IN TAPER AREAS.
5. THE CONSTRUCTION SIGN SUMMARY SHOWN IN THESE PLANS IS TO BE USED FOR COST ESTIMATING ONLY. ADDED SIGNS MAY BE REQUIRED BY THE ENGINEER, OR MAY BE USED AT THE CONTRACTOR'S OPTION WITH PRIOR APPROVAL OF THE ENGINEER.
6. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
7. CHANNELIZING DEVICES IN USE AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
8. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. ADVANCE NOTICE OF PARTIAL ROAD CLOSURES AND DETOURS SHALL BE PUBLISHED IN THE LOCAL NEWSPAPER(S) AND BROADCAST OVER THE LOCAL RADIO AND TV STATIONS AT LEAST ONE DAY PRIOR TO EACH ACTIVITY. THE MEDIA NOTICE SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS USE.
9. ONE LANE CLOSURES SHALL NOT BE ALLOWED BETWEEN 7 AND 9 A.M. OR FROM 4 TO 6 P.M. AT OTHER TIMES, ONE LANE CLOSURES ARE ALLOWED ONLY WHEN TRAFFIC CAN BE ACCOMMODATED WITHOUT STOPPING ANY VEHICLE FOR MORE THAN THREE MINUTES. IF STOP TIME EXCEEDS THREE MINUTES, THE CONTRACTOR SHALL EITHER REDUCE THE LENGTH OF THE WORK ZONE TO BRING STOP TIME INTO COMPLIANCE OR REVERT TO TWO WAY OPERATION.



PERMANENT CONSTRUCTION SIGNING FOR SIDE STREETS
SIDE STREET PLACEMENT AT:



TWO LANE ROADWAY-SINGLE LANE CLOSURE



PERMANENT CONSTRUCTION SIGNING

ROADWAY ENCROACHMENT

NOTE: IF ONLY ONE LANE IS EFFECTED BY ROAD WORK (THAT IS, THE DRUMS ALONG THE WORK AREA ARE NO CLOSER THAN 10'-0" TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.

CONSTRUCTION SIGNS			
CODE	LEGEND	SIZE	QUANT.
CW21-4E	ROAD WORK 1500 FEET	48"X48"	2
CW21-4F	ROAD WORK AHEAD	48"X48"	2
CW20-4B	ONE LANE ROAD 1000 FEET	48"X48"	4
CW20-7A	FLAGGER SYMBOL WITH SUPPLEMENTAL PLATE - 500 FT.	24"X18"	4
CW20-1F	ROAD CONSTRUCTION AHEAD	48"X48"	2
CW21-24F	ROAD WORK AHEAD	36"X36"	2
CW5-1	ROAD NARROWS	36"X36"	2

PERMANENT CONSTRUCTION SIGNS			
CODE	LEGEND	SIZE	QUANT.
G20-1	ROAD CONSTRUCTION NEXT 2.5 MILE	60"X36"	2
G20-2	END CONSTRUCTION	60"X24"	2
CW20-1F	ROAD CONSTRUCTION AHEAD	48"X48"	2
CW1-7		48"X24"	2

- LEGEND**
- ▬ FIXED SIGNS
 - ▬ PORTABLE SIGN
 - DRUM
 - CONE
 - ▨ WORK AREA

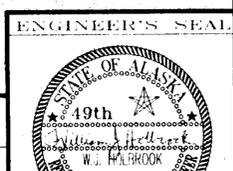
DATE: _____ DESCRIPTION OF CHANGE: _____

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

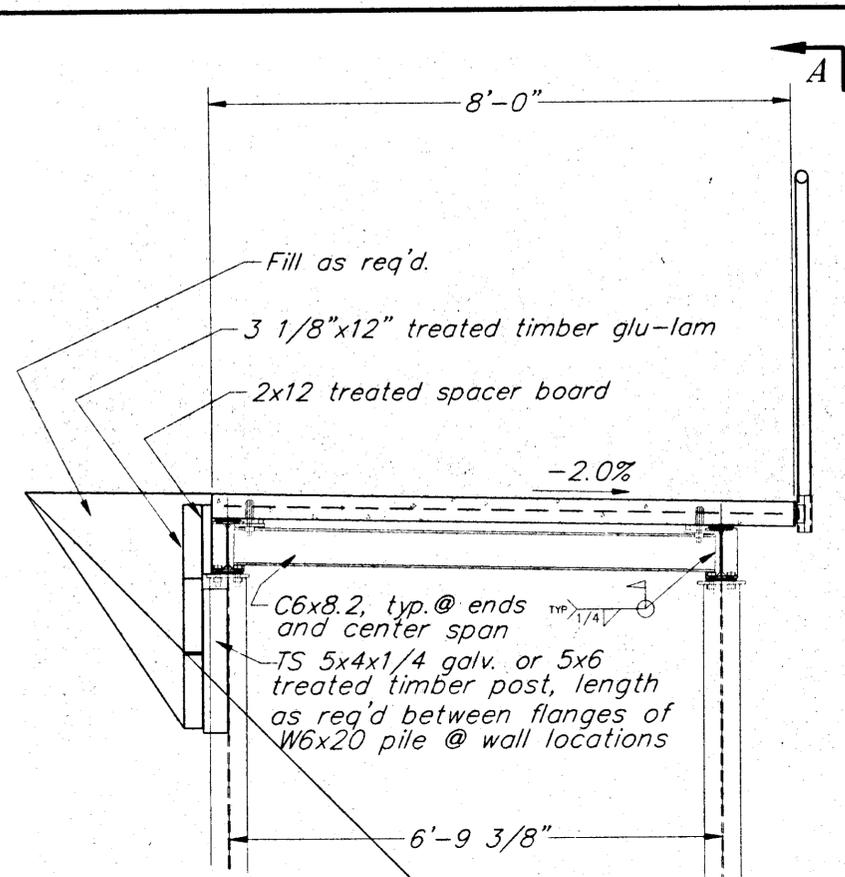
KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372
ALASKA

DESIGNED BY: P. CARROLL
DRAWN BY: _____

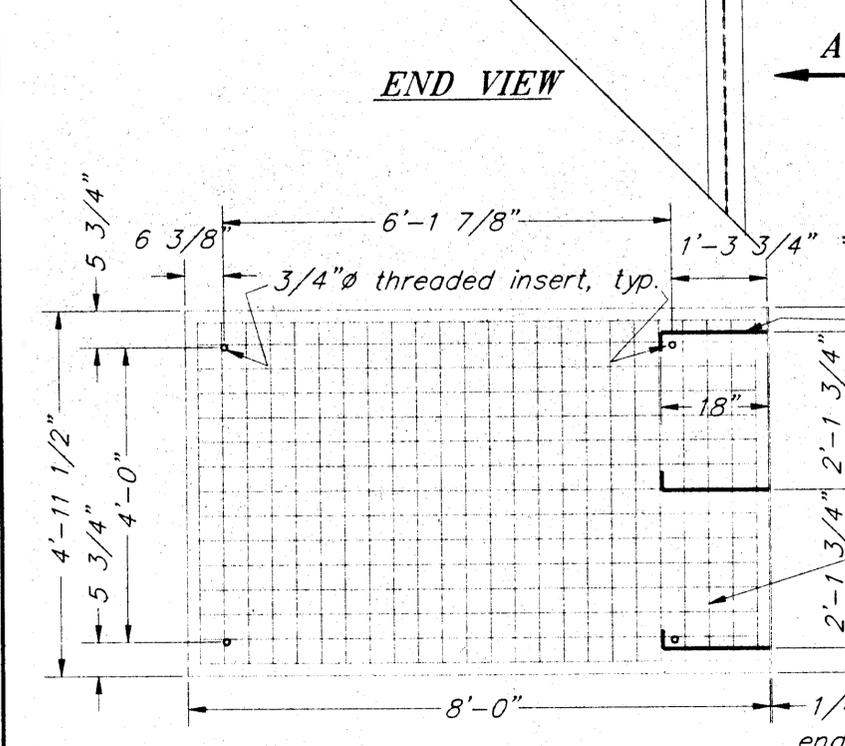
PROJECT NO. 71372
DATE: AUGUST 1995



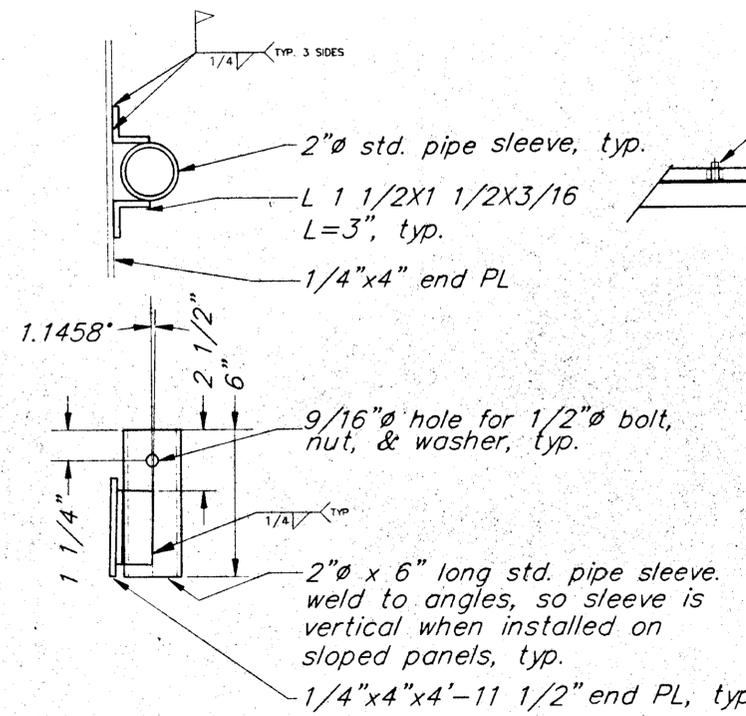
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



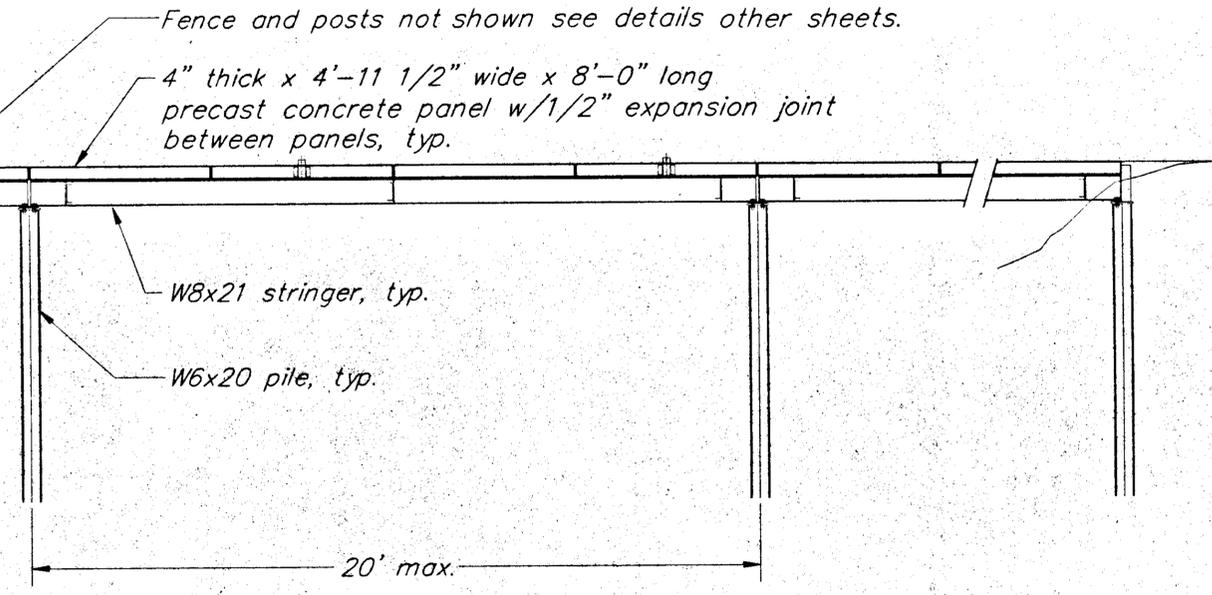
NOTE: Piling depth details same as shown on sheet 21



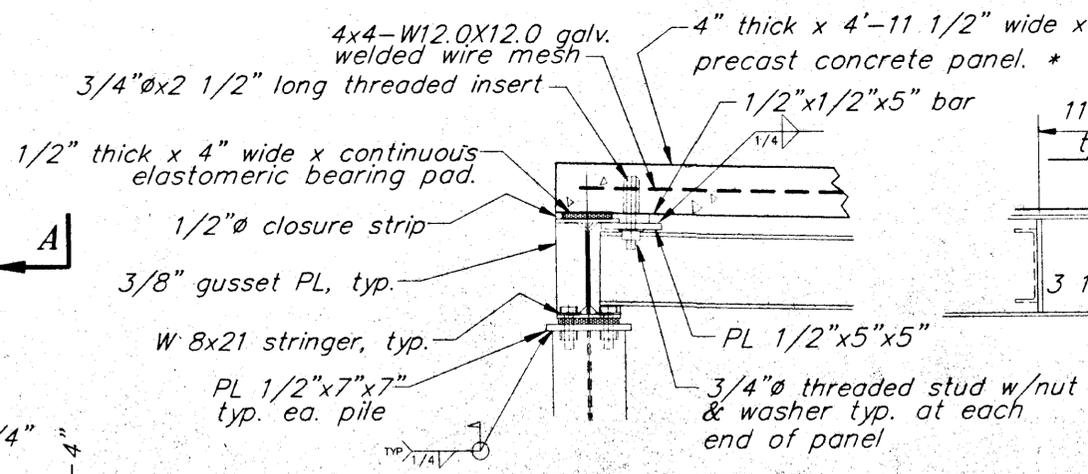
CONCRETE DECK PANEL DETAIL



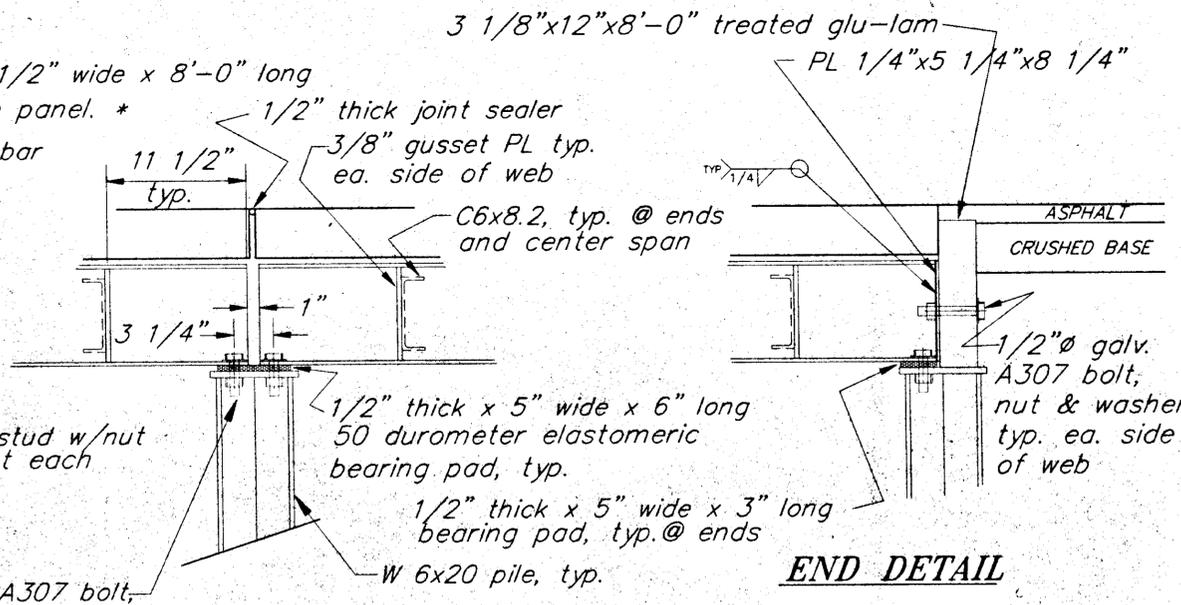
FENCE ATTACHMENT DETAIL



ELEVATION A-A



SECTION DETAIL



ELEVATION DETAIL

*NOTE: A stay-in-place galvanized steel form and cast-in-place concrete deck is an acceptable alternative. Submit details for approval.

GENERAL NOTES

1. Concrete strength $F_c' = 5000$ psi
Steel Yield Strength = 60000psi
2. All steel shapes, plates, and hardware shall be A36, galvanized after fabrication
3. Deck panel weight approx. 2100 lbs.
4. All other materials and details remain the same as shown on other sheets.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DATE: 12/15/2015	DESCRIPTION OF CHANGE:
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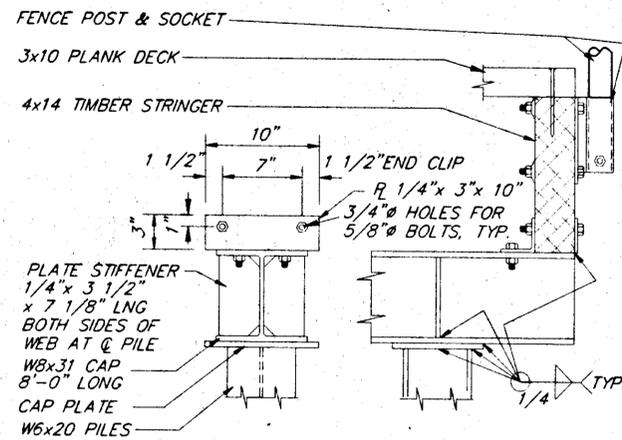
STATE OF ALASKA

KETCHIKAN South Tongass Highway ALASKA
COAST GUARD ENTRANCE TO SAYMAN RECREATION PATH

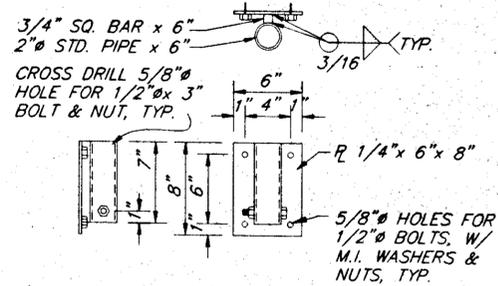
DESIGNED BY: BAS

PROJECT NO. 71372

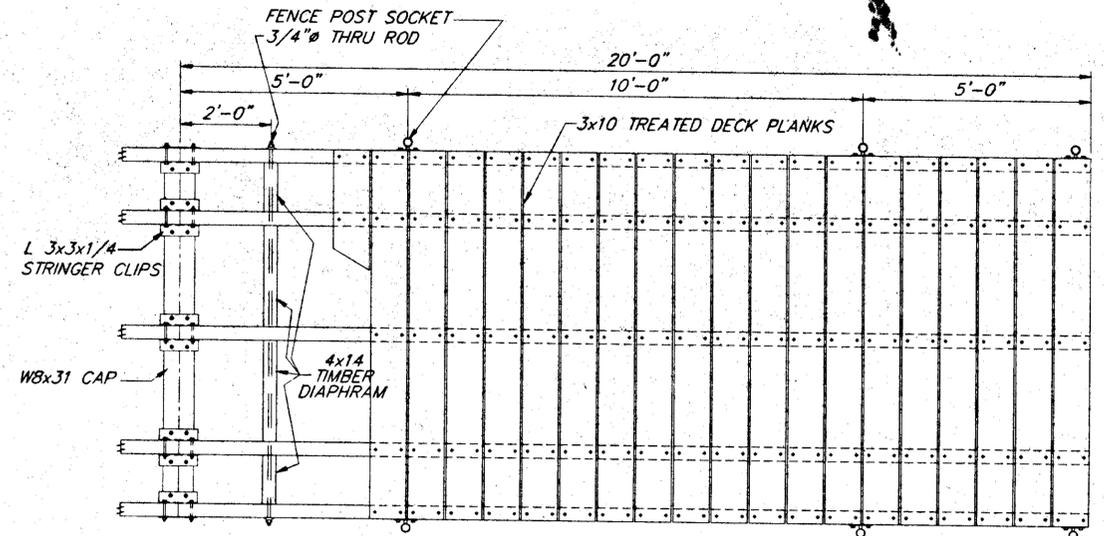




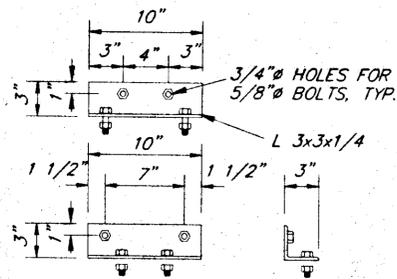
END CLIP & PILE CAP DETAILS



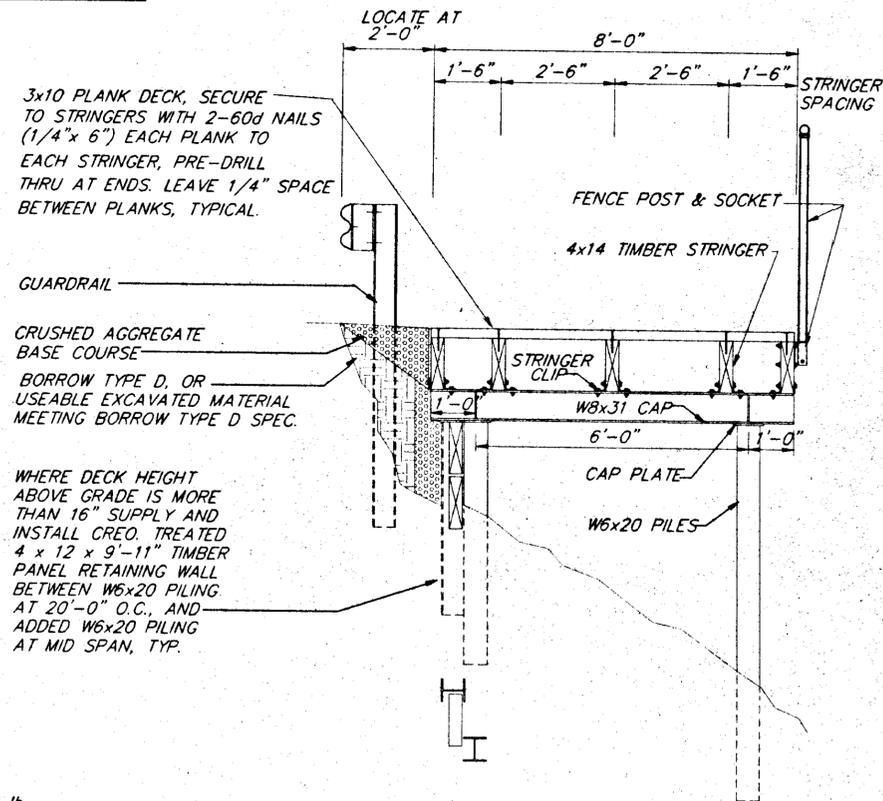
FENCE POST SOCKET DETAIL



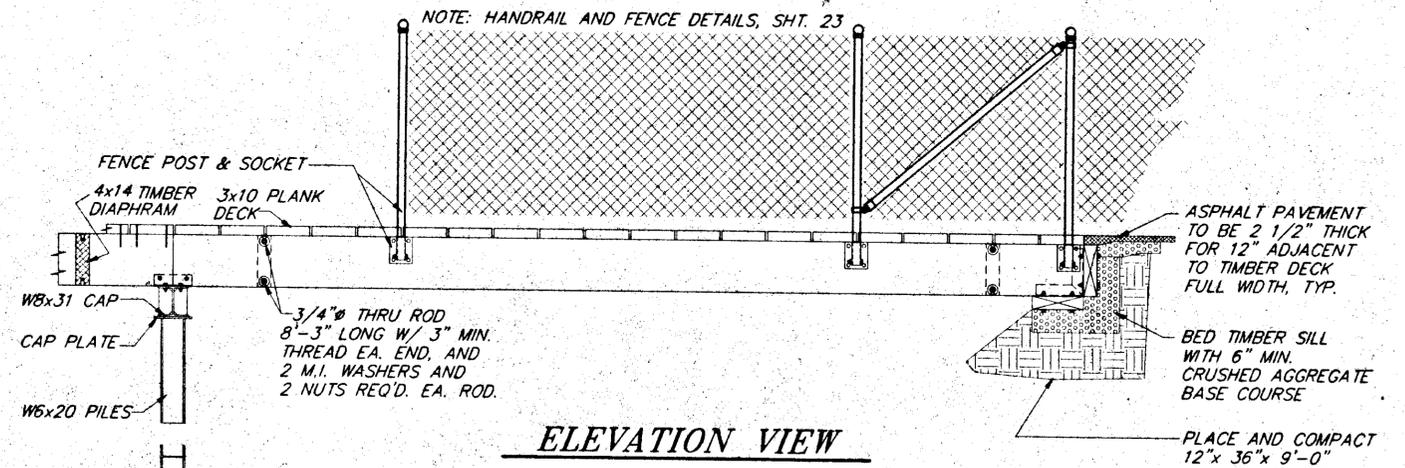
DECK PANEL PLAN



STRINGER CLIP DETAIL



END VIEW

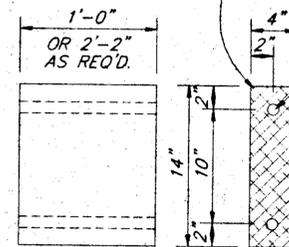


ELEVATION VIEW

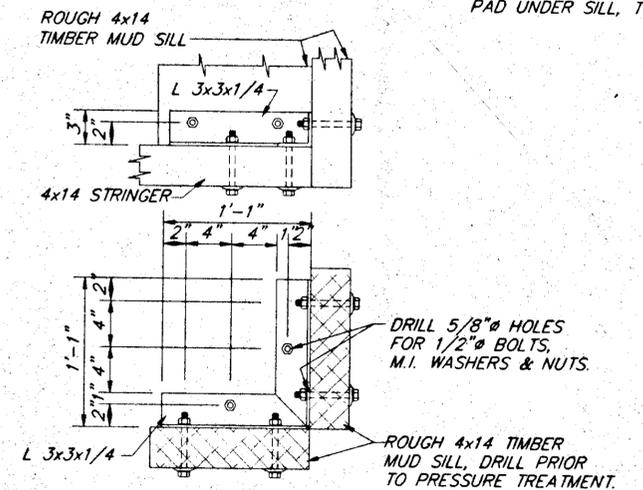
GENERAL NOTES

1. APPROXIMATE 8' x 20' DECK PANEL WEIGHT 3300 lb. DESIGN VEHICLE LOAD = 3 TON
2. ALL TIMBER STRINGERS, DIAPHRAMS, & MUD SILLS SHALL BE 4x14 ROUGH SAWN & PRESSURE TREATED WITH CREOSOTE TO 12 PCF RETENTION BY ASSAY.
3. ALL STEEL SHAPES, PLATES, AND HARDWARE SHALL BE A36 GALVANIZED AFTER FABRICATION. ALL BOLTS SHALL BE A307 GALVANIZED.
4. DECKING SHALL BE 3x10 S4S DIMENSIONAL LUMBER. TREATMENT SHALL BE A.C.Z.A. OR EQUIVALENT, 0.4 PCF RETENTION BY ASSAY, PENETRATION = 0.6" IN ACCORDANCE A.W.P.A. STD. SPEC.
5. ALL OTHER MATERIALS & DETAILS REMAIN THE SAME AS ON OTHER SHEETS.

DRILL 1" HOLE FOR 3/4" THRU ROD, TYP.
ROUGH 4x14 TIMBER DIAPHRAM, CUT TO LENGTH & DRILL HOLES PRIOR TO PRESSURE TREATMENT.



DIAPHRAM DETAIL



MUD SILL DETAIL

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DATE:	DESCRIPTION OF CHANGE:
-------	------------------------

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

KETCHIKAN
SAXMAN RECREATION PATH
ALASKA
COAST GUARD ENTRANCE TO SOUTH TONGASS HIGHWAY
FED. NO. TR-0902(1B) - PROJECT NO. 51922

DESIGNED BY: BAS	PROJECT NO. 71372
DRAWN BY:	DATE:



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

CHANGE ORDER

Project No.: TE-0902(8)/71372 Contract No.: _____ Change Order No.: 2

Project Name & Location: KTN-South Tongass Highway, Coast Guard Entrance to Saxman Recreation Path (Rebid)

Contractor: Rock-n-Road Construction

Address: PO Box 9083
Ketchikan AK 99901

SUMMARY OF CONTRACT AMOUNTS:

Original Contract Amount: \$1,231,585.00
 Amount of Previous Changes: -0-
 Estimate of this Change: \$22,463.00
 Adjusted Contract Amount: \$1,254,048.00

Recommended By: Gary P. McCall Date: 2/27/96
 Gary P. McCallon, Construction Group Chief

Approved By: Barry L. Bergdoll Date: 2/27/96
 Barry L. Bergdoll, P.E., Construction Chief

Accepted By: _____ Date: 2/28/96
 Acknowledged By: _____ Proj. Mgr. Date: 2/28/96
 Contractor's Representative

The time provided for completion of the contract is unchanged increased decreased per description below

The following change(s) in the above Contract are hereby made in accordance with the terms of the Contract, and under the terms and conditions stated below. This document shall become an amendment to the Contract and all provisions of the Contract will be applicable.

DESCRIPTION OF CHANGE (Use Continuation Sheet 25D-065 as Required)

In accordance with Section 104-1.02, Changes, of the Contract Specifications, the following changes are hereby made:

ESTABLISH BID ITEM 513(1), STATION 131+50 Line Change.

DESCRIPTION: Bid Item 513(1), Station 131+50 Line Change, shall consist of the relocation of "R" line as shown on accompanying plan sheets, 38 & 39 of 40, and the details shown on sheet 40 of 40.

MATERIALS & CONSTRUCTION: Materials and Construction shall be in accordance with Sections 511(2), Welded Wire Walls; 512(1); Rockery, and 506(1) Treated Timber.

METHOD OF MEASUREMENT: Item 513(1), Station 131+50 Line Change, will not be measured except as noted in the Basis of Payment.

BASIS OF PAYMENT: The Basis of Payment for the work described in this change order shall be the agreed lump sum price of \$22,463.00 and shall be full compensation for all labor, equipment, and materials to complete the work. Work performed on other items in the contract, including welded wire walls, rockeries, borrow, crushed base, and asphalt shall be paid for under their respective items.

Traffic control will not be affected by this change order.

Contract time will be extended three days as a result of this change order.

PLEASE INDICATE YOUR AGREEMENT BY SIGNING, DATING AND RETURNING THE ORIGINAL OF THIS DOCUMENT.

"R" LINE RECPATH CONTROL SUMMARY

"R" STATION	BEARING	NORTHING	REMARKS	"R" STATION	BEARING	NORTHING	REMARKS
	DISTANCE	EASTING			DISTANCE	EASTING	
B.O.P. 109 + 39.72	S 37° 54' 25" E	7019.2577		PI 160 + 74.57	S 57° 32' 29" E	3261.2007	
PC 110 + 37.53	17.97'	7019.2577	CURVE DATA Δ = 4° 41' 51" RT	PI 161 + 23.09	S 56° 32' 14" E	2770.4197	
PT 110 + 52.29	S 35° 12' 34" E	7019.2577	R = 300'	PI 161 + 54.91	S 54° 38' 08" E	2770.4197	
PC 111 + 53.13	100.84'	7019.2577	CURVE DATA Δ = 2° 38' 01" LT	PC 161 + 98.41	11.50'	2770.4197	CURVE DATA Δ = 11° 24' 45" LT
PT 111 + 76.32	S 35° 50' 36" E	7019.2577	R = 300'	PT 162 + 48.20	S 76° 03' 52" E	2770.4197	R = 250'
PI 112 + 38.29 BK	51.37'	7019.2577		PC 162 + 57.20	9.00'	2770.4197	CURVE DATA Δ = 4° 37' 12" RT
PI 114 + 25.63	S 32° 47' 10" E	7019.2577		PT 162 + 89.49	S 71° 26' 21" E	2770.4197	R = 400'
PI 114 + 32.39	S 30° 11' 48" E	7019.2577		PC 163 + 70.03	S 71° 50' 26" E	2770.4197	
PC 114 + 93.10	45.96'	7019.2577	CURVE DATA Δ = 8° 12' 43" LT	PT 163 + 99.56	S 64° 13' 04" E	2770.4197	CURVE DATA Δ = 7° 37' 20" RT
PT 115 + 68.27	S 38° 44' 29" E	7019.2577	R = 458.48'	PC 164 + 02.38	2.92'	2770.4197	CURVE DATA Δ = 11° 51' 00" LT
PI 115 + 18.94	50.67'	7019.2577		PT 164 + 39.08 BK	S 72° 58' 55" E	2770.4197	R = 175'
PI 123 + 00.80	S 37° 02' 53" E	7019.2577		PI 164 + 73.12	69.29'	2770.4197	
PI 123 + 27.07	S 26° 57' 31" E	7019.2577		PI 177 + 23.18	S 57° 07' 15" E	2770.4197	
PC 123 + 32.30	85.23'	7019.2577	CURVE DATA Δ = 2° 46' 56" RT	PI 177 + 73.87	S 60° 42' 00" E	2770.4197	
PT 124 + 32.28	S 34° 10' 37" E	7019.2577	R = 2059.31'	PC 178 + 25.81	51.94'	2770.4197	CURVE DATA Δ = 18° 51' 18" LT
PI 125 + 51.72	S 32° 44' 13" E	7019.2577		PT 179 + 14.99	S 79° 33' 19" E	2770.4197	R = 271.01'
PI 125 + 71.49	S 33° 49' 23" E	7019.2577		PC 179 + 20.50	5.61'	2770.4197	CURVE DATA Δ = 5° 46' 30" RT
PI 128 + 52.97	S 29° 08' 03" E	7019.2577		PT 179 + 70.56	S 73° 46' 48" E	2770.4197	R = 495.64'
PC 129 + 07.38	54.91'	7019.2577	CURVE DATA Δ = 23° 17' 43" LT	EOP 179 + 75	4.44'	2770.4197	
PT 130 + 70.51	S 52° 25' 45" E	7019.2577	R = 400'				
PC 132 + 33.04	152.52'	7019.2577	CURVE DATA Δ = 10° 21' 13" RT				
PT 132 + 44.69	S 41° 58' 12" E	7019.2577	R = 5500'				
PC 132 + 45.25	0.36'	7019.2577	CURVE DATA Δ = 71° 53' 55" LT				
PT 132 + 57.31	S 53° 52' 28" E	7019.2577	R = 5500'				
PI 132 + 87.03	29.27'	7019.2577					
PI 150 + 71.42	S 46° 48' 51" E	7019.2577					
PC 151 + 34.34	S 45° 47' 57" E	7019.2577	CURVE DATA Δ = 3° 11' 18" LT				
PT 151 + 40.46	36.12'	7019.2577	R = 225'				
PC 151 + 70.59	S 54° 29' 15" E	7019.2577	CURVE DATA Δ = 5° 00' 56" RT				
PT 152 + 34.58	S 31° 28' 19" E	7019.2577	R = 225'				
PI 152 + 20.51	S 50° 33' 28" E	7019.2577					
PI 152 + 63.55	S 50° 31' 14" E	7019.2577					
PI 153 + 20.25	S 50° 25' 07" E	7019.2577					
PI 153 + 70.50	S 52° 55' 24" E	7019.2577					
PC 154 + 13.31	42.72'	7019.2577	CURVE DATA Δ = 2° 19' 11" LT				
PT 155 + 14.04	S 55° 24' 36" E	7019.2577	R = 211.11'				
PI 155 + 71.37	S 57° 01' 56" E	7019.2577					
PI 155 + 20.25	S 50° 00' 19" E	7019.2577					
PI 156 + 63.36	S 59° 33' 43" E	7019.2577					
PC 157 + 51.55	31.90'	7019.2577	CURVE DATA Δ = 1° 33' 07" RT				
PT 158 + 50.57	S 61° 26' 50" E	7019.2577	R = 3000'				
PC 159 + 21.12	70.56'	7019.2577	CURVE DATA Δ = 5° 37' 47" LT				
PT 159 + 52.35	S 67° 24' 37" E	7019.2577	R = 300'				
PI 159 + 87.90	S 65° 45' 19" E	7019.2577					
PI 160 + 22.32	S 66° 11' 38" E	7019.2577					

GENERAL NOTES:

- FOR EXISTING GUARDRAIL AREAS SHOWN IN PLAN & PROFILE SHEETS, CONTRACTOR IS ENCOURAGED TO USE 2'-0" OFFSET FROM FACE OF GUARDRAIL (SEAWARD) FOR ESTABLISHING HORIZONTAL CONTROL FOR LEFT EDGE OF RECREATION PATH.
- FOR NON-GUARDRAIL AREAS, CONTINUOUS TIES TO EXISTING PK NAILS HAVE BEEN PROVIDED AND ARE SUMMARIZED ABOVE AS THEY RELATE TO RECPATH STATIONING ("R" LINE) FOR THE PURPOSE OF ESTABLISHING HORIZONTAL CONTROL TO PATH LEFT EDGE IN THESE AREAS.
- CONTRACTOR IS OBLIGATED TO CONSTRUCT THE ALIGNMENT SHOWN AS A MINIMUM CONDITION.

"PK" NAIL OFFSET SUMMARY Sheet

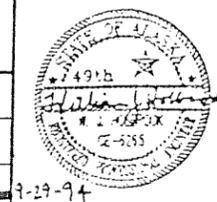
"PK" NAIL NUMBER	BEARING	NORTHING	"R" STATION/OFFSET	FIELD CONTROL POINT	BEARING	NORTHING	"R" STATION/OFFSET
	DISTANCE	EASTING			DISTANCE	EASTING	
PK #1	S 38° 39' 36" E	7019.2577		101	S 61° 46' 36" E	2428.4030	159+72.19 6.45' LT.
2	S 37° 19' 30" E	7019.2577	110+17.47 2.00' LT.	102	S 58° 23' 19" E	2751.2100	150+22.03 5.13' LT.
3	S 36° 10' 26" E	7019.2577	110+67.33 2.91' LT.	103	S 52° 18' 22" E	2770.4197	160+72.03 5.30' LT.
4	S 35° 24' 19" E	7019.2577	111+17.24 5.49' LT.	104	S 50° 58' 55" E	2770.4197	161+22.15 5.25' LT.
5	S 34° 31' 25" E	7019.2577	111+67.29 7.38' LT.	105	S 58° 23' 15" E	2770.4197	151+71.76 6.78' LT.
6	S 33° 31' 18" E	7019.2577	112+17.51 5.94' LT.	106	S 62° 31' 51" E	2770.4197	162+25.55 8.95' LT.
7	50.20'	7019.2577	112+67.20 4.51' LT.	107	S 71° 21' 29" E	2770.4197	162+72.91 5.14' LT.
				108	S 71° 58' 15" E	2770.4197	163+22.59 4.72' LT.
10	S 33° 25' 31" E	7019.2577	114+17.18 4.14' LT.	109	S 72° 06' 10" E	2770.4197	163+72.57 4.35' LT.
11	S 33° 37' 42" E	7019.2577	114+65.83 5.21' LT.	110	S 71° 11' 11" E	2770.4197	164+22.58 8.55' LT.
12	S 34° 35' 29" E	7019.2577	115+17.06 7.83' LT.	111	S 71° 35' 23" E	2770.4197	164+73.85 6.08' LT.
13	S 37° 31' 51" E	7019.2577	115+67.85 6.36' LT.	112	50.02'	2770.4197	165+23.65 5.44' LT.
14	S 39° 26' 17" E	7019.2577	116+17.78 5.47' LT.				
15	49.92'	7019.2577	116+67.90 5.61' LT.	137	S 62° 12' 59" E	2770.4197	177+73.47 5.19' LT.
				138	S 58° 25' 48" E	2770.4197	178+23.72 6.52' LT.
27	S 39° 58' 47" E	7019.2577	122+68.36 4.51' LT.	139	S 70° 23' 37" E	2770.4197	178+75.07 7.19' LT.
28	S 38° 37' 25" E	7019.2577	123+18.07 5.17' LT.	140	S 72° 38' 01" E	2770.4197	179+25.68 2.10' LT.
29	S 37° 35' 11" E	7019.2577	123+58.06 6.61' LT.	141	49.93'	2770.4197	179+75.48 0.55' RT.
30	S 35° 49' 39" E	7019.2577	124+17.95 7.13' LT.				
31	S 34° 13' 50" E	7019.2577	124+57.74 7.36' LT.				
32	S 32° 34' 25" E	7019.2577	125+17.59 7.28' LT.				
33	S 31° 23' 44" E	7019.2577	125+67.76 5.73' LT.				
34	50.06'	7019.2577	126+17.44 4.45' LT.				
38	S 30° 14' 50" E	7019.2577	128+17.27 4.56' LT.				
39	S 32° 13' 56" E	7019.2577	129+57.28 5.75' LT.				
40	S 25° 44' 42" E	7019.2577	129+17.39 8.34' LT.				
41	S 40° 23' 54" E	7019.2577	129+68.52 9.73' LT.				
42	S 45° 26' 53" E	7019.2577	130+19.82 8.77' LT.				
43	S 50° 32' 09" E	7019.2577	130+70.66 5.98' LT.				
44	S 52° 43' 38" E	7019.2577	131+20.57 4.33' LT.				
45	S 52° 47' 50" E	7019.2577	131+70.66 4.59' LT.				
46	S 52° 31' 53" E	7019.2577	132+20.61 4.90' LT.				
47	S 49° 53' 59" E	7019.2577	132+69.83 6.45' LT.				
48	50.06'	7019.2577	133+19.34 4.53' LT.				
33	S 48° 19' 27" E	7019.2577	150+70.25 4.76' LT.				
34	S 48° 41' 50" E	7019.2577	151+19.99 6.38' LT.				
35	S 49° 17' 57" E	7019.2577	151+70.82 6.92' LT.				
36	S 50° 15' 58" E	7019.2577	152+20.36 4.88' LT.				
37	S 50° 56' 25" E	7019.2577	152+70.59 4.66' LT.				
38	S 52° 04' 19" E	7019.2577	153+20.70 5.01' LT.				
39	S 53° 03' 33" E	7019.2577	153+70.75 4.71' LT.				
30	S 53° 07' 46" E	7019.2577	154+20.84 4.81' LT.				
91	S 55° 15' 42" E	7019.2577	154+71.01 4.90' LT.				
92	S 56° 13' 43" E	7019.2577	155+21.10 5.02' LT.				
93	S 57° 02' 28" E	7019.2577	155+71.14 5.59' LT.				
94	S 57° 27' 11" E	7019.2577	156+21.28 5.59' LT.				
95	S 58° 57' 57" E	7019.2577	156+71.38 5.45' LT.				
96	S 60° 00' 28" E	7019.2577	157+21.42 4.94' LT.				
97	S 61° 13' 31" E	7019.2577	157+71.41 5.26' LT.				
98	S 62° 31' 14" E	7019.2577	158+21.45 5.96' LT.				
99	S 62° 59' 59" E	7019.2577	158+71.49 6.61' LT.				
100	S 63° 33' 36" E	7019.2577	159+21.45 7.96' LT.				

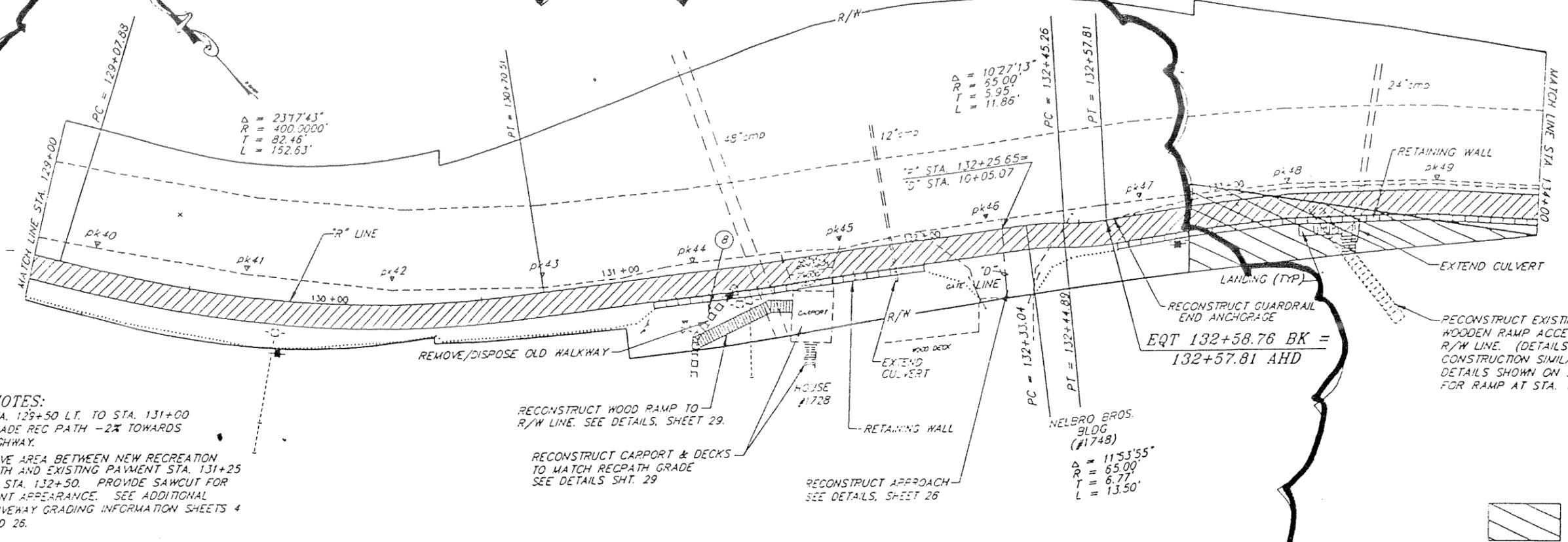
DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN
SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SALWAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372
ALASKA
DESIGNED BY:
DRAWN BY:
CHECKED BY:

PROJECT NO. 71372
DATE: SEPT. 1994
SHEET 1-29-94





- NOTES:**
1. STA. 129+50 LT. TO STA. 131+00 GRADE REC PATH -2% TOWARDS HIGHWAY.
 2. PAVE AREA BETWEEN NEW RECREATION PATH AND EXISTING PAYMENT STA. 131+25 TO STA. 132+50. PROVIDE SAWCUT FOR JOINT APPEARANCE. SEE ADDITIONAL DRIVEWAY GRADING INFORMATION SHEETS 4 AND 26.

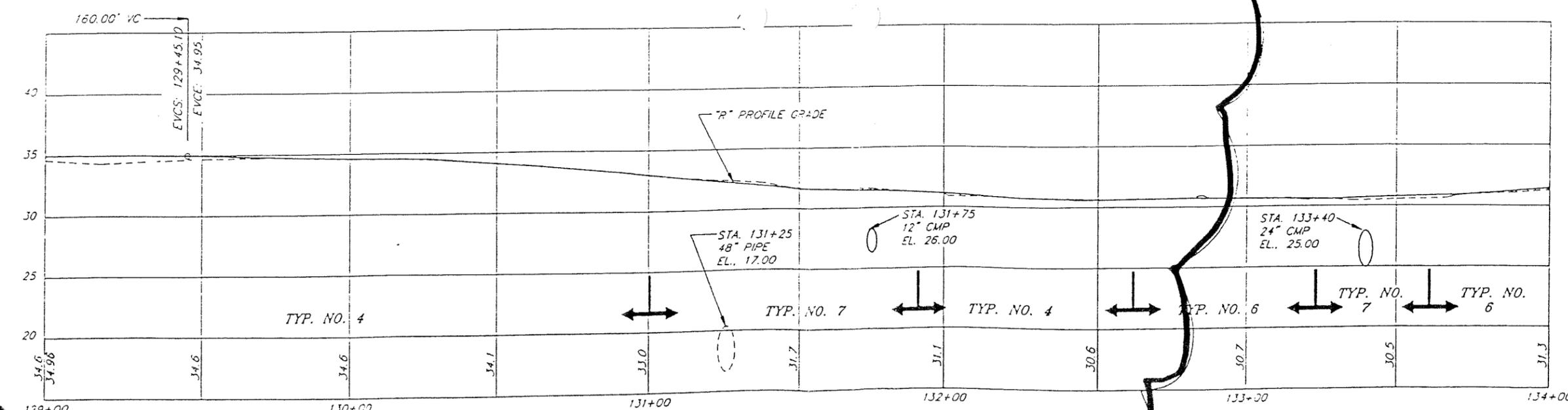
RECONSTRUCT WOOD RAMP TO R/W LINE. SEE DETAILS, SHEET 29.

RECONSTRUCT CARPORT & DECKS TO MATCH RECPATH GRADE SEE DETAILS SHT. 29

RECONSTRUCT APPROACH SEE DETAILS, SHEET 26

EQT 132+58.76 BK = 132+57.81 AHD

DIAGONAL HATCHING DENOTES RIGHT OF ENTRY PERMISSION HAS BEEN OBTAINED BY THE DEPARTMENT FOR THE AREA SHOWN.



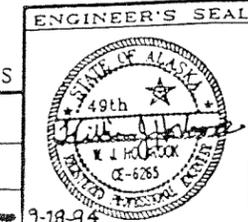
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

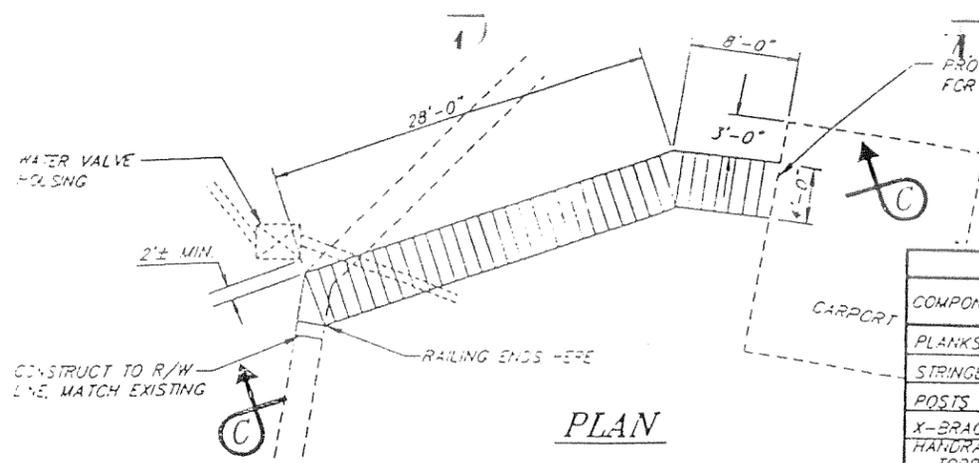
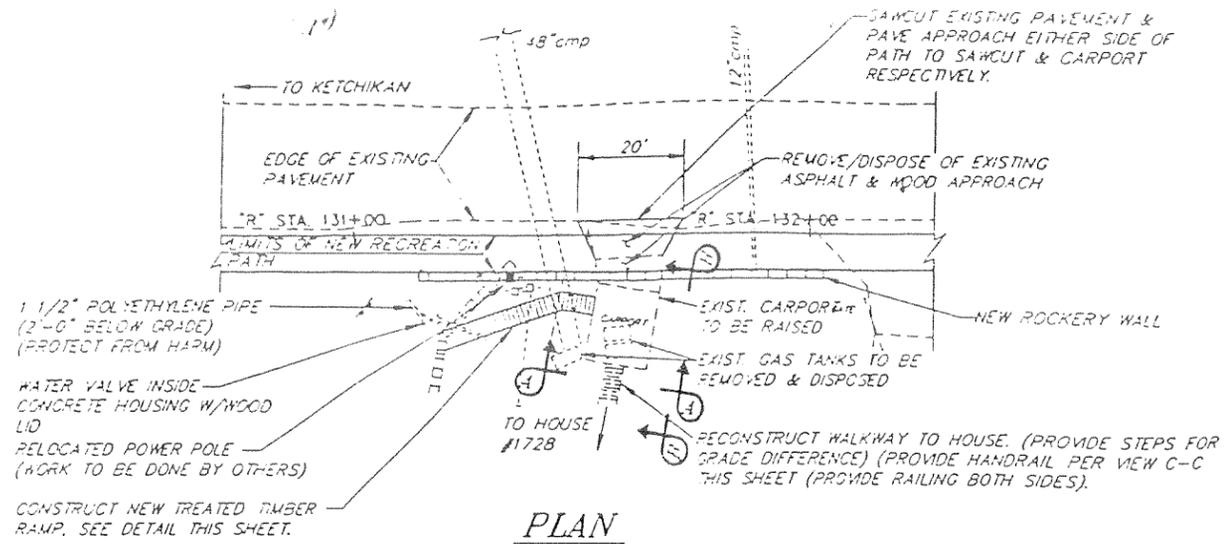
DATE	BY	DESCRIPTION OF CHANGE
P. 1/21/94	KIM SAXBIKE	DR/P29 1=20

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN SOUTH TONGASS HIGHWAY
COAST GUARD ENTRANCE TO SAXMAN RECREATION PATH
PROJECT NO. TE-0902 (18) 71372
"R" STA. 129+00 TO "R" STA. 134+00
PLAN AND PROFILE

DESIGNED BY: W. HOLBROOK	PROJECT NO. 71372
DRAWN BY: C. ANDERSON	DATE: SEPT. 1994
CHECKED BY: C. MORROW	SHEET 7-1A-94





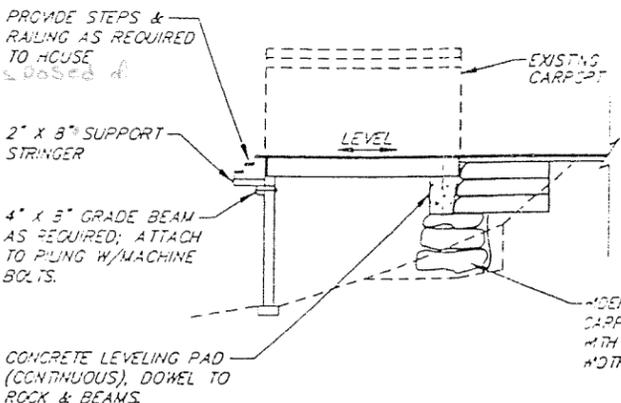
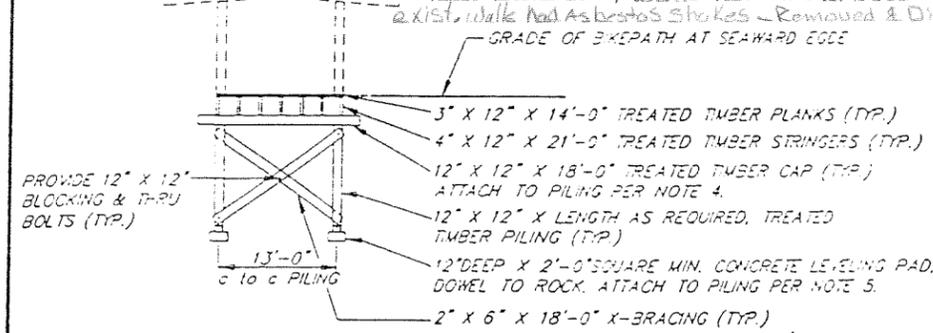
COMPONENT	SIZE	WIDTH	LENGTH	BOARDS FEET (TBM)
PLANKS	2" X 6"	6"	74 X 4' = 296'	0.30
STRINGERS	2" X 8"	8"	45 X 2' = 90'	0.12
POSTS	6" X 6"	6"	8 X 6' = 48'	0.14
X-BRACING	2" X 6"	6"	10 X 9' = 90'	0.09
HANDRAILING TOPRAIL	2" X 8"	8"	40'	0.05
HANDRAILING SIDERAIL	2" X 4"	4"	40'	0.03
GUARDRAIL	2" X 4"	4"	4 X 8' = 32'	0.05
POSTS	4" X 4"	4"	5 X 4' = 20'	0.03
TOTAL				0.81

NOTE:

REMOVE/DISPOSE EXISTING SUBSTRUCTURE INCLUDING PILING, GROSS CAP BEAMS, LONGITUDINAL FLOOR STRINGERS AND FLOORING MATERIAL.

EXISTING CARPORT STRUCTURE WALLS & ROOF TO BE RAISED (SUPPORT WALLS & ROOF BEFORE REMOVING SUBSTRUCTURE).
 Roof salvaged; Walls Replaced w/ New
 Exist. Walk had Asbestos Shingles - Removed & Disposed of

PROVIDE STEPS & RAILING AS REQUIRED TO HOUSE TO HOUSE #1728

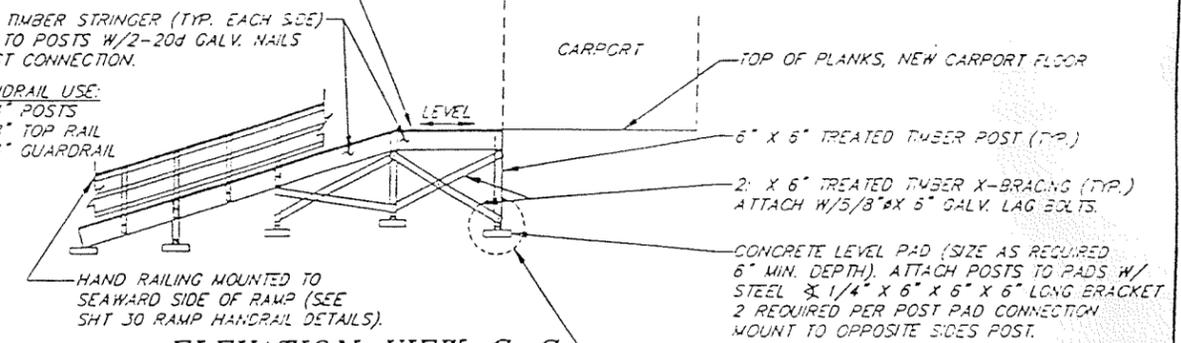


2" X 6" TREATED TIMBER PLANKS (TYP.)

2" X 8" TIMBER STRINGER (TYP. EACH SIDE) ATTACH TO POSTS W/ 2-20d GALV. NAILS PER POST CONNECTION.

FOR HANDRAILING USE:
 4" X 4" POSTS
 2" X 8" TOP RAIL
 2" X 4" GUARDRAIL

REMOVE ROCKERY OUT AT CARPORT & CONSTRUCT WITH 12" EXTRA BENCH WIDTH AT TOP.



ELEVATION VIEW A-A

CARPORT RECONSTRUCTION DETAILS STA. 131+50

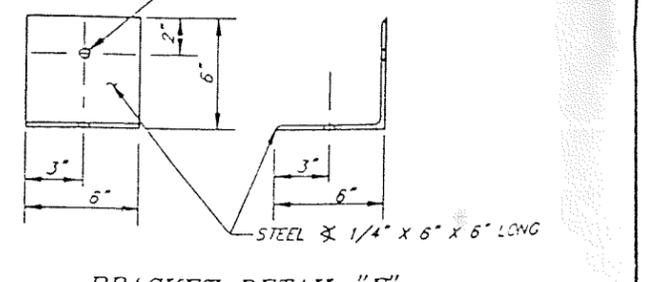
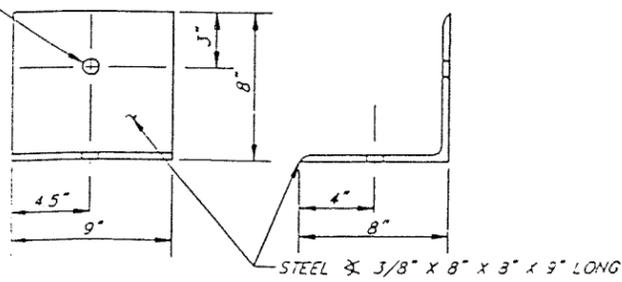
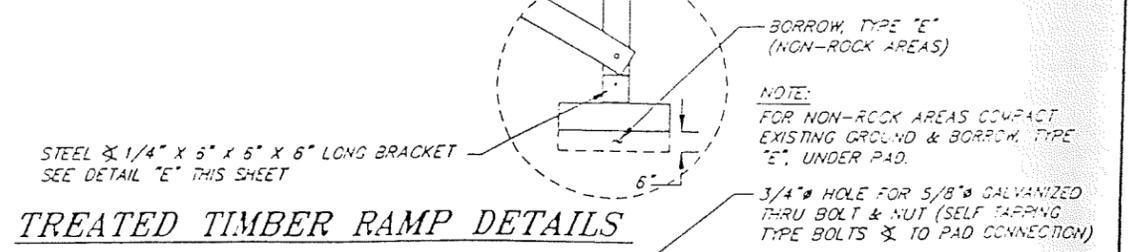
ELEVATION VIEW B-B

ELEVATION VIEW C-C

CARPORT NOTES:

1. SECURE EVERY OTHER STRINGER TO CAP EACH SIDE OF STRINGER W/ 2" X 6" FROM DETAIL FOR POST TO LEVELING PAD BRACKET. SEE DETAIL "E" THIS SHEET. TOE NAIL REMAINING STRINGERS TO CAP WITH 3/8" GALVANIZED SPIKES. PREDRILL HOLES IN STRINGERS.
2. SECURE PLANKING TO STRINGERS W/ 2-6" GALVANIZED SPIKES PER STRINGER-PLANK JOINT. PLANKS SHALL BE FULL WIDTH, NO SPLICES OF PLANKING PERMITTED.
3. 5/8" GALVANIZED THRU BOLTS, REQUIRED ALL LOCATIONS EXCEPT BRACING 6" MIN. LENGTH LAG BOLTS ACCEPTABLE AND WHERE LOCATIONS CONFLICT WITH BEAM ENDS OCCUR.
4. SECURE CAP TO PILING WITH DOWELS AND STRAP PER VIEW F-F, SHEET 30.
5. SECURE PILING TO LEVELING PAD USING 2" X 6" BRACKETS MOUNTED TO OPPOSITE SIDES OF PILING, BOLT THRU BOTH ANGLES. SEE DETAIL "D" THIS SHEET FOR ADDITIONAL DETAILS.
6. ALL TIMBER SHALL BE S4S, 1600 psi ALLOWABLE STRESS MIN. TREATED WITH ACZA OR EQUIVALENT PRESERVATIVE TREATMENT TP 0.4 PER RETENTION BY ASSAY, 0.4 INCHES PENETRATION, IN ACCORDANCE WITH A.I.T.C. AND A.W.P.A. (C2) STANDARDS, RESPECTIVELY.
7. SECURE FACIA BEAM TO STRINGER EVERY OTHER MAIN STRINGER LOCATION USING DETAIL E ATTACHMENT BRACKET AND 5/8" ECONOMY BOLTS, NUTS AND WASHER. ECONOMY HEAD SHALL SHOW ON EXPOSED FACE OF FACIA BEAM.

COMPONENT	SIZE	WIDTH	LENGTH	BOARDS FEET (TBM)
PLANKS	3" X 12"	12"	21 X 14' = 294'	0.90
STRINGERS	4" X 12"	12"	7 X 21' = 147'	0.59
CAP	12" X 12"	12"	18'	0.07
PILING	12" X 12"	12"	4 X 11' AVE. = 44'	0.17
X-BRACING	2" X 6"	6"	36'	0.04
GRADE BEAM	4" X 8"	8"	14'	0.05
SUPPORT STRINGER	2" X 8"	8"	2 X 8' = 16'	0.02
STAIR STRINGER	2" X 12"	12"	1.5 X 8' = 12'	0.03
STAIR PLANKS	2" X 12"	12"	6 X 6' = 36'	0.07
HANDRAILING TOPRAIL	2" X 8"	8"	2 X 8' = 16'	0.03
HANDRAILING SIDERAIL	2" X 4"	4"	2 X 8' = 16'	0.01
HANDRAILING GUARDRAIL	2" X 4"	4"	4 X 8' = 32'	0.02
HANDRAILING POSTS	4" X 4"	4"	4 X 4' = 16'	0.03
FACIA BEAM	2" X 12"	12"	2 X 14' = 28'	0.06
TOTAL				2.10



BRACKET DETAIL "D" PILING TO LEVELING PAD

BRACKET DETAIL "E" POST TO PAD CONNECTION

8. ALL STRUCTURAL STEEL BRACKETS, BOLTS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A-153. NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: P:\SAX\BIKEPATH\DR\DETAIL4	I=20
BY:	DATE:
CJM	1/22/96
DESCRIPTION OF CHANGE: TIMBER, STEEL SPEC.	

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

KETCHIKAN SOUTH TONGASS HIGHWAY
 COAST GUARD ENTRANCE TO SALYAN RECREATION PATH
 PROJECT NO. TE-0902 (18) 71372
 ALASKA
 MISCELLANEOUS DETAILS

DESIGNED BY: W. HOLBROOK	PROJECT NO. 71372
DRAWN BY: P. SNYDER	DATE: SEPT. 1994
CHECKED BY:	SHEET

